Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

Volume 157 No. 13 — 30 Church Street, New York 7, N. Y. — March 27, 1950

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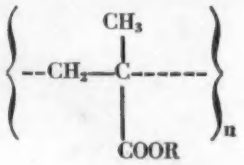

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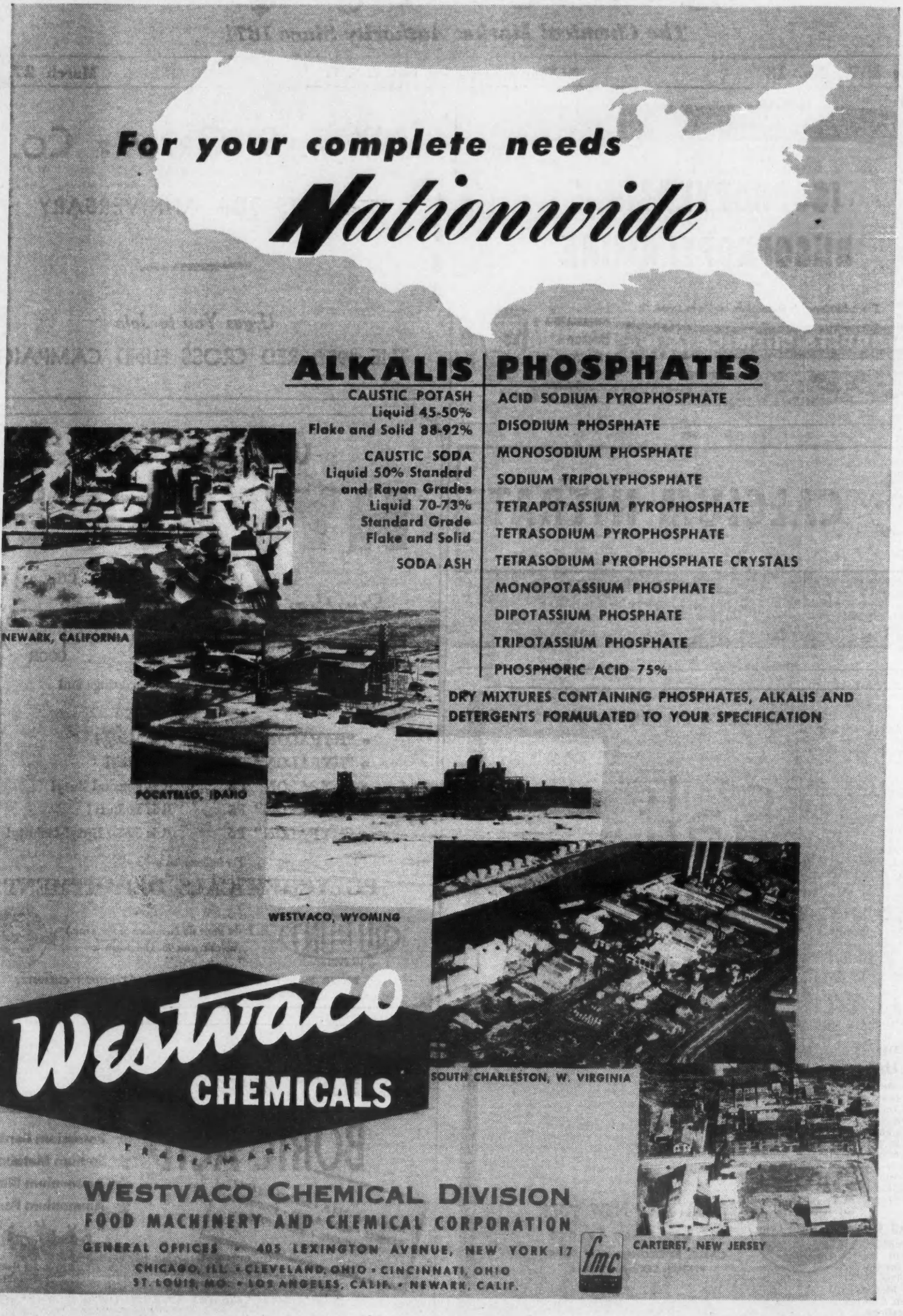
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Naval Stores Price Program Unchanged

The Department of Agriculture announced last week that there will be no change made in the announced support level for 1950 crop gum naval stores. The support level will be at 60 percent of the parity price as of April 1, 1950, as stated last November. The dollar and cents level of support will be announced on or shortly after April 1.

Representative Don Wheeler, of Georgia, said that since the department has refused to change its support program, it is expected that the producers will press for their alternative suggestion that government holdings of naval stores be "frozen."

At a conference with Secretary Charles Brannan on March 20, representatives of the American Turpentine Farmers Association and members of the Georgia and Florida congressional delegations urged the department to reconsider the 60 percent of parity price support program and boost the support level to 71 percent.

They proposed as an alternative, should the department be unwilling to increase the support price, that all price supports be removed by the government on naval stores and that its naval stores holdings be "frozen" for a period of three years. Mr. Wheeler said that the association felt that the economic problems of the industry could be solved within that period if it was given a free market within which to operate.

Oil Products Transporters Wrangle Studied by ICC

The National Tank Truck Carriers last week charged the railroads with trying to eliminate all competition in the movement of petroleum products in the south in their proposed new rate schedule now under consideration by the Interstate Commerce Commission.

In a brief filed with the commission, the association said that the proposed cuts in rates are a threat to the entire petroleum distribution industry of the south, including tankers and seaports, river barges and terminals and pipeline operations, as well as to private and common-carrier trucks.

The railroads have petitioned the commission for approval of about 6,000 new rates from eighty-one points of origin over more than 15,000 routings.

Antitrust Law Violation Penalty Increase Approved

The house judiciary committee last week voted to increase the criminal penalty for violations of the Sherman antitrust act from $5,000 to $50,000, and ordered the introduction of a new bill to carry out this proposal. An earlier bill, H.R. 6679, had proposed an increase to $50,000 of the criminal penalties under the Clayton act as well as the Sherman act.

Reference to the Clayton act was eliminated by the committee in view of the recent action by congress in amending the Clayton act to provide that each day of a continuing violation of the act shall be considered a separate violation and subject to a maximum $5,000 fine. This change in the law was contained in the oleomargarine tax repeal bill.

Tung Support Agreements Cover Half of 1949 Crop

The Department of Agriculture has announced that purchase agreements covering 1,748 tons of tung nuts and 11,462,509 pounds of tung oil have been made by producers and the Commodity Credit Corporation in accordance with provisions of the 1949-crop tung support program. The agreements represent a little more than half the total production of oil, estimated at approximately 21,000,000 pounds, from the 1949 crop of tung nuts.

Enamel Contracts Awarded

The Department of Defense announced the recent award of contracts totaling $276,200 for the purchase of rust-inhibiting enamel. The contracts were let by Raritan Arsenal, Metuchen, N. J., to Atlas Paint & Varnish Company, Irvington, N. J., for 20,000 gallons at a price of $165,000, and to Standard Paint & Varnish Company, New Orleans, for 80,000 gallons at a price of $111,200.

Chemical Output Concentration By Companies Shown by ODC

The percentage of concentration of output of chemicals and related products by the first four and eight, and, for some, the first twenty and fifty producing companies is shown in a tabulation compiled and published by the Chemical Division of the Office of Domestic Commerce, United States Department of Commerce. The data cover forty-one divisions of the general industry engaged in the production of such articles. They were taken from the report submitted last December by the Secretary of Commerce, in which a total of 452 industrial divisions were covered.

In the table which follows, all establishments in each division of the chemical group are consolidated into the companies owning or controlling them. The classification of an establishment was based on the fact that its production of the primary articles of that division exceeded in volume its production in any other line. The arrangement is in the order of the concentration percentage of the first four companies in each division, on the basis of data in the census of manufactures.

Product division	No. of companies	Value of shipments	1947 concentration ratios (percent) First 4 companies	First 8 companies	First 20 companies	First 50 companies	1935 concentrations ratios First 4 companies	First 8 companies
Botanical products	13	$16,395,000	92.1	96.8	...	...	...	...
Cyclic (coaltar) crudes	13	60,639,000	90.6	97.6	...	...	...	...
Softwood distillation	28	72,999,000	85.8	93.9	99.9	...	...	...
Compressed and liquefied gases	69	93,489,000	82.6	87.6	94.0	99.3	79.2	87.0
Salt	23	46,056,000	80.5	90.5	99.7	...	...	...
Explosives	35	136,356,000	80.4	88.9	98.4	...	...	...
Soap and glycerin	223	1,085,789,000	79.0	85.9	92.7	97.1	73.5	83.1
Synthetic fibers	22	705,271,000	78.4	94.4	100.0	...	74.3	90.2
Carbon black	13	73,592,000	78.3	97.0	...	...	81.0	92.1
Synthetic rubber	5	235,200,000	*	...	...	...	...	...
Linseed oil mills	12	192,173,000	74.7	96.6	...	...	87.9	97.2
Hardwood distillation	22	13,725,000	72.3	94.1	...	...	...	...
Alkalies and chlorine	18	208,560,000	70.1	92.6	...	...	...	...
Medicinal chemicals	88	201,761,000	68.5	83.1	95.5	99.5	...	...
Fatty acids	15	68,094,000	67.7	94.0	...	...	...	...
Animal oils, n.e.c	14	11,675,000	66.2	96.1	...	...	...	...
Inorganic color pigments	57	269,970,000	63.6	81.1	96.7	100.0	...	...
Essential oils	40	35,739,000	62.6	85.3	97.7	...	...	96.3
Natural tanning and dyeing materials	24	18,344,000	60.6	82.9	99.3	...	...	...
Printing ink	151	115,708,000	57.0	68.9	81.3	93.3	49.0	60.9
Organic chemicals, n.e.c	188	1,445,210,000	47.0	64.4	86.4	95.8	...	...
Glue and gelatin	60	99,262,000	44.5	66.1	91.7	99.7	37.3	58.4
Gum naval stores (steam-distilled)	25	38,508,000	44.2	61.5	94.1	...	...	...
Soybean oil mills	105	585,709,000	44.0	63.0	81.1	93.6	...	...
Plastics materials	94	483,461,000	43.9	62.7	89.3	98.9	...	...
Cottonseed oil mills	172	518,091,000	43.3	55.3	68.2	82.9	32.9	43.5
Vegetable oil mills, n.e.c	61	334,231,000	40.7	67.4	91.2	99.6	...	...
Marine animal oils	58	31,265,000	40.6	60.2	83.0	99.7	...	...
Whiting and fillers	66	18,791,000	39.4	58.7	81.9	98.5	...	...
Biological products	79	38,752,000	37.9	50.9	76.0	96.7	...	...
Insecticides and fungicides	146	73,068,000	37.4	54.2	75.2	91.3	...	...
Fertilizers	81	311,657,000	35.6	55.9	82.2	96.1	...	...
Sulphonated oils and assistants	100	51,506,000	32.3	48.5	74.4	93.9	...	...
Inorganic chemicals, n.e.c	242	672,645,000	32.1	43.4	65.7	88.2	...	...
Grease and tallow	473	304,535,000	29.4	36.7	49.8	66.4	28.7	37.9
Pharmaceutical preparations	1,123	941,713,000	28.0	44.0	64.2	80.0	...	...
Paints and varnishes	1,154	1,248,841,000	27.3	35.7	48.2	60.9	...	...
Toilet preparations	692	371,892,000	23.8	38.2	59.4	80.5	25.3	40.7
Cleaning and polishing preparations	1,018	261,365,000	23.5	33.2	49.3	63.7	...	...
Fertilizers (mixing only)	377	192,848,000	18.3	28.4	47.0	64.7	...	...
Chemical products, n.e.c	1,135	393,242,000	12.7	23.0	40.3	57.1	...	...

* Data withheld to avoid disclosure for individual companies.

The chemicals division said that there are three principal factors which appear to exert a substantial influence on the degree of concentration of output within a particular chemical division. In the order of importance, these were listed as (1) cost of plant facilities; (2) availability of raw materials, and (3) effects of patents or secret processes. Because of the wide variety of products made in establishments included in most chemical divisions and the consequent wide range of equipment and facilities needed for their manufacture, the division said, it is difficult statistically to evaluate the effects of the influencing factors.

Many chemical products, such as ammonia, soda ash, synthetic fibers, and synthetic (chemical) rubber, require facilities costing millions of dollars, it was pointed out, while others, such as sodium hypochlorite, polishing preparations, household insecticides, and toilet preparations, require a relatively small capital outlay. Concentration of output is generally greater in industries which require a larger capital investment than in those for which

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Price Trend Stands Still

There were a goodly number of price changes in the markets for chemicals, oils, and drugs last week. Most of them were matters of prequarter conditions and of limited significance. Reductions outnumbered advances, but the latter carried the more average weight. So the effect on the overall average was practically in balance and the price index number was unchanged. There was a drop of 1.5 points in the corresponding week a year ago.

The pattern of price movements was again changed, although the drug division repeated its upward trend. Fats and oils were again on the upside. The slackening trend in botanicals got on the downside. Some new activity was developed in nonferrous metals by reductions in the thallium area. Tin and its salts got another advance. Other metals and their derivatives were quiet.

The advancing of essential oils was stopped after eight weeks, cuts and boosts being in balance. But, there were advances in three of their derived principles. The gain in fats and oils was caused by the edible vegetable group. Fishliver oil and three imported waxes were reduced. Animal products were on the downside. So were spices, also theophyllines and sulphathiazoles among organic chemicals. The coaltar division was busy, short in some things, but steady in the price sense. That condition is expected to hold into the coming quarter.

There was a moderate manifestation of sentiment that next month would bring a variety of price advances because of higher costs. It was evident, however, that competition of imported materials was of more than slight influence in several lines. There was some admission also that demand in general had shrunk during the past month, although supplies of sodium chlorate, DDT, chlorine, benzene hexachloride, copper sulphate, nitrogen solutions, and some lesser materials are tight. The talk about looseness in potash because of imports from Russia has faded, largely because deliveries could not be kept up to sales. Agricultural demand as a whole, also, is bigger than deliveries, transportation facilities being inadequate to the deferred ordering. Inquiries are cut in some sections by puzzling over the potato situation. Some of the evidence does not support the idea that farmers got rich from spuds.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

Mar. 24, 1950	Mar. 17, 1950	Dec. 30, 1949	Mar. 25, 1949
121.9	121.9	124.8	135.9

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1950	1949	1947	1946	1941
January	123.2	142.0	150.9	135.3	107.3
February	121.3	140.4	151.9	135.4	110.3

Antihistamines Makers Get FTC Complaint

The Whitehall Pharmacal Company, New York, was charged in a Federal Trade Commission complaint last Friday with misrepresentation of the therapeutic properties and effectiveness of "Kriptin" in the treatment of the common cold.

This marked the third complaint issued by the commission in an investigation of the advertising of antihistamine preparations. Others had been lodged against Bristol-Myers Company, New York, and Anahist Company, Yonkers, N. Y. Bristol-Myers sells "Resistabs."

The complaints charge that each company has misrepresented the therapeutic properties and effectiveness of its product in the prevention and treatment of the common cold. According to the complaints, the products are neither cures, preventatives nor adequate or competent treatment for the common cold or its manifestations. Representations as to the safety of the products are also under attack.

The commission said that these complaints are the first to emerge from an investigation of advertising claims for antihistamine products. The advertising of other companies in the field are also under scrutiny, it was stated, adding that additional complaints will be issued where the evidence warrants.

Bristol-Myers Denial

Bristol-Myers immediately denied the "allegations" of FTC as "completely erroneous and at variance from true facts." All advertising of "Resistabs" has been based upon thorough clinical and scientific investigations, it was said.

"Evidence of this investigation was filed many months ago with the Food and Drug Administration," the company continued. "So far as we know, FDA was completely satisfied that the product is safe when used as directed. Furthermore, millions of consumers have used 'Resistabs' and similar antihistamines with safety

—Continued on page 53

Nitrogenous Fertilizer Bids Refused by FSS

All bids submitted to the Federal Supply Service offering to supply various quantities of nitrogenous fertilizer materials under the bid opening of March 15 have been thrown out by the agency and a new invitation is being sent out for offers to supply 12,000 tons of the material. The new bids will be opened April 3.

There were about twenty-five offers made under the earlier proposal, which called for 10,000 tons of nitrogenous fertilizers of any kind which had a minimum nitrogen content of 16 percent. Officials did not explain why the bids were rejected, but emphasized that early delivery is to be given important consideration in connection with the new invitation.

The material being sought is the same as that called for in the earlier invitation —"any kind of nitrogenous fertilizer" that contains a minimum of 16 percent nitrogen—but at least half of the 12,000 tons is wanted by May 15. The material is for Korea. Also, it is provided in the new invitation that the source of material may be either from the United States, Canada, Germany, Chile, Austria or Belgium.

Manganese on Stockpile List; Pepper Removed

Chemical grade manganese has been added to the list of products to be stockpiled by the government for emergency purposes and pepper has been removed from the list, it was announced last week by the Munitions Board.

It was also stated that the board has revised the stockpile objectives for chemical grade chromite, coconut oil, palm oil, tin, castor oil, and celestite. No disclosure was made, however, of what these objectives might be.

The board said that it had transferred pepper from the group 1 to group 2 list, which consists of materials acquired for the stockpile only through transfers of government-owned surpluses. The change was made as a result of studies by the quartermaster corps' food and container institute, which found that "while pepper is a customary and desirable seasoning, it has no preservative properties and is not absolutely essential in an emergency."

ERP Program Bills Studied by Congress

Separate bills providing for another one year extension of the expiring European Recovery Program, but differing in the cash amounts to be available to the Economic Cooperation Administration to carry on the program, were reported to the floors of the senate and house last week by the committees on foreign affairs.

Breaking sharply with Presidential recommendations, the house foreign affairs committee reported a bill that provides for only $1,950,000,000 in new cash funds for the twelve months period starting July 1, plus $150,000,000 of unspent funds carried over from this year, and directs that the remaining $1,000,000,000 asked for the program shall be made up of surplus farm products.

The senate committee on the other hand reported a bill embodying the full amount of cash asked for, plus $100,000,000 for recovery in Korea, but tied three riders to the bill which, though not legally binding on the administration, are expressions of congressional wishes as to how the program shall be administered.

One of the riders was aimed at the recent British curb on imports from American companies. The amendment expresses the sense of congress that no country getting Marshall plan aid should impose restrictions which discriminate against American citizens or companies. On the other hand, another amendment expresses the sense of congress that Marshall plan countries should cut their dollar imports to the bone. The third rider asks ERP countries to use some of their counterpart funds to support the proposed new European Payments Union to facilitate trade among European countries.

The bill reported to the house is expected to be strongly opposed by the administration because of the surplus farm products amendment. ECA administrator Paul Hoffman said that the amendment would place in him a "straightjacket." He is being supported in his opposition by the four major farm organizations which said last week that the amendment would lend strength to the argument of the communists that the sole purpose of ECA is to dump American farm products on the world market.

HIF Appoints Williamson And H. Hoover to Posts

William H. P. Blandy, president of the Health Information Foundation, announced last week that former President Herbert Hoover has accepted the chairmanship of the foundation's citizens' advisory committee, and that Kenneth Williamson has been appointed executive secretary of the foundation.

Mr. Hoover, who has been active for some years as honorary chairman of the

Kenneth Williamson

National Fund for Medical Education, will head the group formed to provide the foundation with layman's viewpoint on health problems.

Mr. Williamson, who was formerly assistant director of the American Hospital Association, has worked in the hospital and health insurance fields for many years. He has been an administrative assistant in several hospitals, was assistant director of the Hospital Service of Southern California, executive director of the Association of California Hospitals and the Association of Western Hospital, and in 1943 joined the American Hospital Association in Chicago as secretary of its council on association relations.

Socony Vice-President

Fred A. Walters, assistant general manager in charge of manufacturing of the Socony Paint Products Company, Metuchen, N. J., has been named vice-president of the organization, to succeed C. G. Nelson, who retired on January 1. Mr. Walters was transferred to the paint company from the parent Socony-Vacuum Oil Company in 1942 as Mr. Nelson's assistant, and became assistant general manager in charge of manufacturing in 1945.

Aall Invited to Deliver Castner Memorial Lecture

Dr. Christian H. Aall, assistant director of Monsanto Chemical Company's phosphate division research department, Anniston, Ala., has been invited to deliver the second Castner Memorial Lecture before the Society of Chemical Industry in London and to receive the Castner Gold Medal.

The lectures are sponsored by Imperial Chemical Industries, of England. The date for Dr. Aall's lecture has not been decided upon, but will probably be early in October.

Peanut Price Program Modified by Congress

The price support program for the 1950 crop of peanuts was modified by the conferees of the senate and the house last week to place a ceiling on the amount of peanuts that can be marketed by growers without penalty. Under the new bill devised by the committee, only those peanuts grown on an area no larger than the 1947 acreage are to be aided under the program. The marketings of peanuts from acreages in excess of that area will be subject to the 50 percent penalty tax.

The modification of the program was made by the conference committee to meet the heavy criticism directed at the earlier bill which would have provided no limit on the amount of peanuts that would be included within the benefits of the program. The program provides for a two-price system for peanuts under which peanuts grown on so-called quota acreages will be supported by loans or purchase contracts at 90 percent or parity and peanuts grown on acreages in excess of the quota but not in excess of the 1947 area will be turned over to the government and crushed for oil and the grower paid the going price for peanut oil and meal.

The program is embodied in H. J. Res. 398, which amends the 1949 agricultural price support act to liberalize the quota restrictions of that act on the growing of cotton and peanuts and to authorize the payment of transportation charges by the government on surplus potatoes acquired under the potato price support program which are given away to welfare organizations, school luncheon programs, etc.

Antarctic Baleen Whale Catch Reached 14,254 Units Mar. 4

The total catch of baleen whales in the Antarctic as of March 4, exclusive of the USSR catch for the preceding week, was 14,254 blue-whale units, according to a report to the Department of the Interior's fish and wildlife service from the International Bureau of Whaling Statistics, Sandefjord, Norway.

If the rate of catch which had prevailed during the first ten weeks of the season continued until midnight March 15, when the 1949-50 season officially closed, the total catch would have exceeded the maximum of 15,000 blue-whale units established in accordance with the provisions of the international whaling convention, it was stated. A total catch in excess of the established maximum, however, would not constitute a violation of the convention so long as such catch was made before the finally established closing date of the season.

ECA Authorizations $800,000 in February

Authorizations of the Economic Cooperation Administration for the procurement of chemicals and related products slumped to only $800,000 during February, when cancellations of previous authorizations nearly offset the new authorizations of the month, according to the agency. The total of chemical authorizations since the start of the program in 1948 totaled $214,800,000.

The majority of authorizations were in the chemical specialties field. New authorizations in this group amounted to $2,100,000. There was also an authorization of $100,000 for alcohol. On the other hand $1,000,000 of authorizations previously allowed for industrial chemicals exclusive of alcohol, and $400,000 for medicinal and pharmaceutical preparations were cancelled.

The agency also reported authoriza-

—*Continued on page 44*

Southern Production Club Elects Smith as President

William A. Smith, of the Dixie Paint & Varnish Company, Brunswick, Ga., was elected president of the Southern Paint & Varnish Production Club at the annual meeting held recently in Memphis, Tenn. Other officers elected were president-elect, A. E. Verbyla, Lenoir Wood Finishing Company, Lenoir, N. C.; vice-president, J. Robert English, Leland Moore Paint & Oil Company, Charleston, S. C., and secretary-treasurer, David Bernhardt, jr., New Orleans Paint & Color Company.

Members of the executive committee elected were M. J. Catena, Harris Standard Paint Company, Tampa, Fla.; F. W. Frew, Decatur Chemical Company, Decatur, Ga.; G. W. Garner, Burks-Hallman Company, Memphis, Tenn., and A. M. Holcomb, Carolina Paint & Varnish Works, Greensboro, N. C.

Victor Elects Geiler to Board

Victor Chemical Works, Chicago, elected Raymond L. Geiler, president of the A. R. Maas Chemical Company, to its board of directors at the recent annual meeting of shareholders. Mr. Geiler fills the vacancy caused by the recent death of Walter B. Brown, president of the Victor organization.

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Hercules Names Bent Board Vice-Chairman

Leavitt N. Bent, vice-president of the Hercules Powder Company, Wilmington, Del., has been appointed to the newly-created post of vice-chairman of the board of directors. He will preside over meetings of the board in the absence of the chairman, Charles A. Higgins, president of the company.

Murray on AEC

Thomas E. Murray, New York industrialist, engineer and financier, last week was appointed by President Truman to the Atomic Energy Commission to fill the vacancy caused by the resignation of former Chairman David Lilienthal. Mr. Murray was not named chairman, as this selection is to be made later by the President.

Another vacancy will exist on the commission when Lewis E. Strauss leaves April 15.

Peanut Oil Exports Set Record in 1949

United States exports of peanuts and peanut oil in terms of unshelled peanuts reached a record high of over 380,000 short tons in 1949 compared with approximately 350,000 tons in 1948 and an average of less than 1,000 tons prewar, according to the Office of Foreign Agricultural Relations.

Exports thus represented the equivalent of over 40 percent of the quantity of peanuts produced in 1949. Of the total 1949 shipments, 174,648 tons were in terms of shelled peanuts, 4,272 tons of unshelled nuts, and 34,229 tons of oil. Over 90 percent of the oil exports and over 80 percent of the peanuts were sent to Europe.

Monsanto Names Tittel Anniston Plant Head

Monsanto Chemical Company, St. Louis, o., has appointed Herbert O. Tittel anager of its plant at Anniston, Ala., to ceed J. F. Reeves, who has resigned. allace K. Belin has been named to suc- ed Mr. Tittel as production superin-

Herbert O. Tittel

ident of the company's plant at Trenton, ich.

Mr. Tittel joined the Monsanto organiza- n in 1941 as a division engineer at niston, and served as construction su- rintendent at plants in Carondelet, Mo., d Monsanto, Tenn., prior to returning to niston in 1945 as a design engineer. He as maintenance superintendent at Annis- n before joining the Trenton plant in 47.

Mr. Belin, who had served as assistant oduction supervisor of the Trenton ant since 1947, joined the company in 41 as a control chemist in the analytical boratory at Anniston. He was trans- rred to Trenton as a production fore- an in 1942.

hell Chemical Elects . C. Peet to Directorship

Shell Chemical Corporation, New York, s elected E. Chester Peet to its board directors. Mr. Peet, who is financial e-president of the Shell Oil Company, ined the Shell organization in 1919 as a erk in St. Louis. He subsequently served San Francisco, where he was made an sistant treasurer, and was moved to the w York headquarters in 1940 as assist- t secretary and assistant treasurer. He as named vice-president and treasurer in e company's east of Rockies territory in 44 and assumed his present responsibil- es in 1949.

tauffer Building Plant

Stauffer Chemical Company has com- enced the construction of a new $1,000,- 0 plant at Lowland, Tenn. The plant, hich is expected to be completed late is year, will produce carbon bisulphide.

Foreign Sales Leads

Anyone interested in supplying the fol- wing inquiries with goods or information n get the full address of the inquirer communicating — not by telephone, ease—with OPD office:—

Aureomycin, Torino, Italy (FJ-5).
Chloromycetin, Torino, Italy (FJ-5).
Inks, gold-colored, Torino, Italy (FJ-3).
Insulin, Torino, Italy (FJ-5).
Non-ferrous metals, Buenos Aires, Argen- a (FJ-6).
Penicillin, Torino, Italy (FJ-5).
Plant for Brazil nut oil production, La Paz, olivia (FJ-1).
Rubber and vulcanizing materials, Caldas, olombia (FJ-2).
Salt-refining equipment, Rizal City, Philip- es (FJ-4).
Sodium nitrate, Tokyo, Japan (FJ-3).
Streptomycin, Torino, Italy (FJ-5).
Table salt, Beyrouth, Lebanon (FJ-7).

Foreign Market Lists

Lists of foreign outlets for chemicals d related materials and consumers ods, recently compiled by the Commer- al Intelligence division of the United ates Department of Commerce, include e following, which are available from e division at $1 a list for any one untry:—

Chemical importers and dealers—Indonesia.
Hospitals—French West Africa; — Nether- nds West Indies.
Ink manufacturers—Norway.
Medicinal and toilet preparations importers d dealers—Egypt;—Indonesia.
Canneries—Ecuador.
Textile industry—Egypt.

P.A.'s-Eye View of Business

Composite view, March 26, of purchasing agents composing the Business Survey Committee of the National Association of Purchasing Agents.

March reports of purchasing executives show this is the second-best month of the first quarter, very close to the high record set in January. The recovery from the slowing effects of the coal strike has been rapid and is expected to continue to accelerate over the next two months.

Appraising the effect of the coal strike, purchasing agents indicate that no great damage was done to general business. Coal began to move just as the shortage started really to hurt. Postponements of deliveries and ordering of finished goods were the only signs of any general setback. Business irrecoverably lost was, apparently, small and of a consumer nature—mostly seasonal goods.

New orders exceed December and February, and are only a little below January. The increase in production was slightly higher than that pattern. Commodity prices are tending slightly upward, with an inclination to level apparent. Inventories are almost static, though some tendency to build up is reported. Employment has rebounded to the January level. Buying policy is predominantly within sixty-day range (74 percent), with slight additions to those reporting in the ninety-day and 120-day brackets.

At the end of the year, industrial buyers were hesitant about forecasting business conditions beyond the first quarter. Taking another look as the quarter ends, the majority opinion expects good and increasing business through April and May; possibly leveling off in June; a somewhat more than seasonal decline in July. A few expect fair business well into the third quarter.

Commodity Prices

There is a general firmness in industrial materials prices. The trend is moderately up. Indications are that many sellers are fast to pass along the increased costs of basic materials. Purchasing agents comment that many additions to prices, though small in amount, are higher than seem justified by the basic cost increases. Over-all, prices appear to be reacting normally to supply and demand.

Inventories

Industrial material inventories may be called static in March, for those reporting decreases are exactly offset by those showing additions to stocks. This is a slight reversal of the trend of many months. Some operating stocks have become abnormally low, due to slow deliveries caused by coal and steel strikes and the postponement of other orders and deliveries until stocks and incoming goods could be balanced. Turnover rates are reported satisfactory. The inventory situation is, therefore, considered healthy.

Buying Policy

The brisk pickup in business, following the coal settlement, has had little effect on buying policy. A conservative "hand-to-mouth" to sixty days is being followed by 74 percent of the reporters (78 percent last month). There is some pickup in the ninety-day policy and a few spread over into 120 days as the controlling commitment range.

Employment

With back orders and production schedules increasing, employment is reported approaching the January payrolls. In the weeding out process during the production cutback period, increased efficiency in production of the remaining workers was noted. Employers are finding a plentiful supply and a better selection of applicants to choose from in reactivating production lines.

Specific Commodity Changes

The changes this month were of moderate degree, with a few exceptions, and mostly on the "up" side. Coal was up; fuel oil down; tin and zinc up; lead more than offset them, down.

Principal items showing increases were ethyl alcohol, bearings, used burlap, chlorine, drills, motors and other electrical equipment, files, coal, coke, jute, leather, lumber, muriatic acid, vegetable oils, refractories, natural rubber, salt, taps, tin, perishable tools, tires, zinc, zinc dioxide.

Down in price were butter, fuel oil, gasoline, lead, lead pigments, lubricants, naphtha, fish oils, sulphur dioxide, cotton textiles, yarns.

Still in short supply:—Aluminum, benzol, burlap, cellophane, coal, coke, copper scrap, some grades of lumber, kraft paper, pipe, steel, zinc oxide.

Canada

Canadian industry was little affected by the coal shortage, as winter stocks were comfortable and new shipments are now beginning to arrive. March general business shows some improvement over February. Production and back-order books are up, though at a lower rate than the United States. Prices are higher; inventories are unchanged; employment gaining sharply; buying policy the same as the States. Industries curtailed by the severe winter are now becoming active. Construction backlog is substantial. Good seasonal pickup is expected, as outdoor work opens up.

Washington Talks It Over

By Ralph L. Cherry

Of the twenty-one reorganization plans submitted to congress recently by President Truman, the plan that is going to draw the most attention of the legislators and the greatest amount of publicity is the one for ending the independence of the Office of General Counsel of the National Labor Relations Board and placing that office under the board itself. There is more politics wrapped up in that one package than in all the other plans combined.

As closer study is given to the proposal of the President, some of the experienced political observers are beginning to wonder if, maybe, Mr. Truman has not outsmarted himself. While it is true that the unions have been after General Counsel Denham's scalp, and nothing would please them more than to have the office abolished and put under the board, they aren't too sure that this is the time or the way to do it.

It must be remembered that one of the big issues in the whole Taft-Hartley act fight revolves around the question of whether the office of general counsel should be independent of the board. In view of the fact that congress has refused to repeal the Taft-Hartley act or modify any of its provisions, it was pretty generally understood that that would be made one of the big issues of the coming political campaign.

However, it is quite possible that Mr. Truman has now kicked over all these plans. Unless either the senate or the house votes to veto the reorganization plan, it goes into effect at the end of sixty days. And if it becomes effective, it is then lost as a campaign issue this fall. There is a strong possibility that not enough votes can be gathered to veto the plan because it takes a constitutional majority.

Schering Sale Still in Offing

The projected sale of Schering Corporation by the Office of Alien Property is moving nearer to a realization, according to the latest information from officials in charge. Some of the problems—they don't say what they are—which have been delaying the sale are now clearing up, and the offer my come along at any time.

The first step involved in the sale of the former German-owned concern is the filing of a prospectus with the Securities and Exchange Commission. After a period of twenty days, the company is then advertised for sale and prospective buyers are given thirty days within which to submit their offers. It's anybody's guess how soon after that the sale will be consummated.

Butter Color Beyond the Law

During senate consideration of the oleomargarine tax repeal bill one of the aims of the proponents of the measure was to have both butter and oleomargarine treated alike for the purposes of government regulation. For example, when it was proposed that FDA make period inspections of plants manufacturing oleomargarine to make sure that good clean health practices were followed, it was also provided that the same supervision shall be exercised by FDA over butter plants.

However, from a public interest standpoint, there is still a marked difference in the regulation of the two industries in one important respect. This has to do with informing the public of the fact when color is added to the product. It isn't generally known, but butter manufacturers

—Continued on page 24

Federal Agencies 1951 Funds Set by House

The first "single package" appropriation bill in modern history, carrying a total of $23,324,832,817 to cover the expenses of the federal government during fiscal year 1951, was reported to the house last week by the committee on appropriations. The bill is $979,489,060 below the amount recommended by the budget and $832,091,180 below appropriations of the current fiscal year.

Very few of the departments and activities of the government escaped the pruning knife of the committee. But one notable exception to the reductions was the committee's consideration of the funds for health research by the Public Health Service. The committee, on its own motion, increased the budget estimate of $1,100,000 for research exclusively in the new field of medicine opened up by the development of ACTH and cortisone, to $3,600,000. On most all other health research programs the budget estimates were approved.

Some of the appropriations contained in the bill follow:—

For salaries and expenses of the antitrust division of the Department of Justice, $3,850,000 which is $19,829 above the current year's fund. The committee reported that during the fiscal year 1949 a total of $1,008,532 was collected in fines for violations of the antitrust laws as compared with only $328,000 in 1948.

For the National Bureau of Standards, $9,170,000, which is a decrease of $839,000 from the estimates of the budget. The committee was sharply critical of the administration of the bureau's affairs.

For the national institutes of health the committee recommended $13,250,000 and adopted the budget estimates of $20,086,000 for the National Cancer Institute, $9,944,000 for mental health activities, and $14,150,000 for the National Heart Institute.

For the Food and Drug Administration, the committee recommended $5,055,700, which is the same as that contained in the budget but $264,200 over the amount appropriated for this year.

For the Bureau of Agricultural and In-

—Continued on page 78

Colgate Appoints Scott Head of Domestic Plants

Colgate-Palmolive-Peet Company has appointed Leo A. Scott as general superintendent of domestic plants and Joseph G. Ferraro as Jersey City plant superintendent.

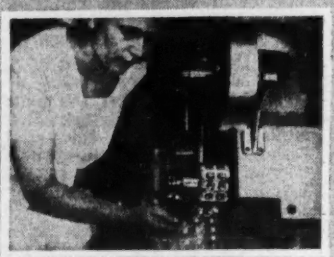
Mr. Scott joined the company as a chemist in the Kansas City, Kan., plant in 1931 and was transferred to the Jersey City plant's production standards department in 1935. He became successively production supervisor and plant superintendent before his new appointment. Mr. Ferraro became associated with Colgate in 1934 as a laboratory technician. Since then he has held the positions of toilet article supervisor and, prior to this new appointment, production supervisor.

Dominion Tar Vice-Pres.

Arthur H. Martin has been appointed executive vice-president of Dominion Tar & Chemical Company, Ltd., Montreal. He will continue as president of Standard Chemical Company, Ltd. The company also appointed W. N. Hall and D. S. Thomas as vice-presidents. Mr. Hall formerly was vice-president of Standard Chemical.

New Animal Laboratories — center of pharmacological research, testing, control.

New Penicillin Packaging Department.



New Seal-Crimp Machine for packaging tablets in air-tight, moisture-resistant compartments.

New Departments New Departures

New Extension, Research Laboratory.

New Soft Elastic Capsule Department.

New AMPIN Assembly Department—AMPINS: syringe, ampul, solution and needle in a single, sterile injection unit.

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Tablets, capsules, liquids, creams—whatever form, size or shape your formula takes, Strong Cobb can "build" it for you. Build it step by step—*laboratory tests, clinical studies, manufacture, control, package, label advice*—all aimed at a predetermined, profitable market!

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Association Meetings

American Association of Candy Technologists, annual production conference, Bethlehem, Pa., April 27.
American Association of Textile Chemists and Colorists, Portsmouth, N. H., September 28-30.
American Chemical Society, 117th national meeting. Bellevue-Stratford hotel, Philadelphia, April 9-13; Statler hotel, Detroit, April 16-20.
American Council of Commercial Laboratories, Cleveland hotel, Cleveland, June 22-23.
American Drug Manufacturers Association, annual meeting, Boca Raton Club, Boca Raton, Fla., March 27-30.
American Institute of Chemical Engineers, Neal House, Columbus, Ohio, December 3-6.
American Oil Chemists Society, Atlanta Biltmore hotel, Atlanta, Ga., May 1-3.
American Petroleum Institute, Biltmore and Ambassador hotels, Los Angeles, November 13-16.
American Pharmaceutical Association, Traymore hotel, Atlantic City, April 30-May 5.
American Pharmaceutical Manufacturers Association, annual meeting, Broadmoor hotel, Colorado Springs, Colo., May 29-31.
American Plant Food Council, Homestead hotel, Hot Springs, Va., June 29-July 2.
American Society for Testing Materials, Atlantic City, N. J., June 26-July 1.
American Spice Trade Association, Shawnee Inn, Shawnee-on-Delaware, Pa., May 21-24.
American Turpentine Farmers Association, Valdosta, Ga., April 19.
American Water Works Association, Convention Hall, Philadelphia, May 21-26.
American Zinc Institute, Statler hotel, St. Louis, April 11-12.
Associated Chain Drug Stores, New Yorker hotel, New York, September 24-27.
Association of Consulting Chemists and Chemical Engineers, Shelburne hotel, New York, April 25.
Canadian Gas Association, Manoir Richelieu hotel, Murray Bay, Quebec, June 19-24.
Central Atlantic States Association of Food and Drug Officials, Chalfonte hotel, Atlantic City, N. J., May 24-26.
Chemical Market Research Association, Statler hotel, Boston, March 30.
Chemical Specialties Manufacturers Association (formerly National Association of Insecticide and Disinfectant Manufacturers), Drake hotel, Chicago, June 12-13.
Drug, Chemical and Allied Trades Section, New York Board of Trade, annual meeting Shawnee Inn, Shawnee-on-Delaware, Pa., September 21-23.
Federal Wholesale Druggists Association, Greenbrier hotel, White Sulphur Springs, W. Va., October 23-25.
Federation of Paint and Varnish Production Clubs, Congress hotel, Chicago, November 9-11.
Flavoring Extract Manufacturers Association, Traymore hotel, Atlantic City, N. J., May 7-10.
Independent Petroleum Association of America, Biltmore hotel, Los Angeles, May 7-9.
Institute of Food Technologists, decennial conference, Edgewater Beach hotel, Chicago, May 21-25.
International Microchemical Congress, Graz, Austria, July 2-6.
Liquefied Petroleum Gas Association, Palmer House, Chicago, May 7-13.
Manufacturing Chemists Association, joint outing with Synthetic Organic Chemical Manufacturers Association, Monmouth hotel, Spring Lake, N. J., June 19-21.
Metal Powder Show, Book-Cadillac hotel, Detroit, Mich., April 25-26.
National Agricultural Chemicals Association, Haddon Hall, Atlantic City, N. Y., April 20-21.
National Association of Chain Drug Stores, Hollywood Beach hotel, Hollywood, Fla., April 11-14.
National Association of Corrosion Engineers, Jefferson hotel, St. Louis, April 4-7.
National Association of Purchasing Agents, Cleveland, June 12-14.
National Association of Retail Druggists, Long Beach, Calif., October 15-21.
National Butane-Propane Association, Hollenden hotel, Cleveland, September 18-19.
National Confectioners Association, Waldorf-Astoria hotel, New York, June 4-9.
National Cottonseed Products Association, Shamrock hotel, Houston, Tex., May 15-17.
National Farm Chemurgic Council, Statler hotel, Washington, March 29-31.
National Fertilizer Association, Greenbrier hotel, White Sulphur Springs, W. Va., June 12-15.
National Paint, Varnish and Lacquer Association, Fairmont hotel, San Francisco, November 15-18
National Petroleum Association, Cleveland hotel, Cleveland, April 12-14.
National Plastics Show, Navy Pier, Chicago, March 28-31.
National Safety Congress, Chicago, October 16-20.
National Sanitary Supply Association, Stevens hotel, Chicago, May 7-10.
National Wholesale Druggists Association, Waldorf-Astoria hotel, New York, September 16-21.
Natural Gasoline Association of America, Texas hotel, Fort Worth, Tex., April 24-26.
Packaging Institute, annual forum, Commodore hotel, New York, October 23-25.
Proprietary Association, Greenbrier hotel, White Sulphur Springs, W. Va., May 25-27.
Society of Cosmetic Chemists, Savoy Plaza hotel, New York, May 19.
Synthetic Organic Chemical Manufacturers Association, Commodore hotel, New York, April 12; joint outing with manufacturing Chemists Association, Monmouth hotel, Spring Lake, N. J., June 19-21; annual meeting, Commodore hotel, New York, December 13.
Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 16-18.
United States Pharmacopoeia convention, Statler hotel, Washington, May 9-10.

CCDA Discusses International Chemical Development Activities

Chemical development in the United States and abroad and the factors influencing such work were discussed at the annual meeting of the Commercial Chemical Development Association, held in the Roosevelt hotel, New York, on March 22.

Highlights of the meeting were the presentation of the first CCDA honor award to Harry B. McClure, vice-president of Carbide and Carbon Chemical Division of Union Carbide & Carbon Corporation, and the election of F. A. Soderberg of General Dyestuff Corporation as president for 1950-51. Mr. Soderberg succeeds Charles D. Goodale of Commercial Solvents Corporation.

In his award address Mr. McClure reviewed case histories of new chemicals just reaching large-scale production stages. Study of forty-two such products which were sold in carload or tankcar quantities by Carbide for the first time

F. A. Soderberg

within the last two years indicated that average rate of progress from test tube scale to tankcar production was between five and six years, although six of them took only two years to go from initial drum shipment to carload stages.

Turning to future chemical development, Mr. McClure pointed out that a fundamental change has taken place in the chemical industry within a generation's time. He presented a table showing what has happened to fifteen of the first two members of each aliphatic family since 1920. In 1920, it revealed, only half of them were available, and their average selling price was 27 cents a pound. Today the average for these fifteen chemicals is 8.9 cents a pound at producer's plant.

"In the years to come," Mr. McClure said, "while there seems little doubt ways may be found to cut the already low cost of the simpler, heavy-tonnage chemicals, it is probable that more activity will take place in the custom-building of the more complex molecules.

"In looking back over the years it was found that, with the exception of the war period, the number of products introduced has steadily increased. Each new product leads to a multiplicity of others, like a hand branching into five fingers.

Obligation of Development Men

"As members of the commercial Chemical Development Association we have quite a heritage—almost twice as many fundamental blocks with which to build at a raw material cost only one-third that of a generation ago. This heritage brings with it heavy obligation to speed the market development process.

"It is our job to develop more useful molecules from the limitless permutations and combinations of these inexpensive building blocks. Not only are the potentialities vast, but we should be able to reduce the time between test tube and tankcar steadily and substantially."

Mr. McClure declared that, in launching a new product, some companies have been willing to take a temporary loss; others go ahead at the pace determined by a price that shows a small profit. The exception, he said, is a product that returns a substantial profit in the first few years.

"To get a more meaningful evaluation," Mr. McClure continued, "we should consider a longer period of time—say ten to twenty years. Certain chemical companies have stated that 60 percent of their earnings stemmed from products introduced during the preceding twenty years. This is a good stiff 'par' for the course. Some chemical development men feel that a 'birdie' is to derive 50 percent of earnings from products introduced in the previous ten years. This score is so difficult to attain that for some of us it seems all too much like expecting the week-end golfer to shoot a 65 Saturday afternoon. In any case, it is fun trying."

Science Foundation Assailed

At the morning session, Dr. D. B. Keyes, vice-president of Heyden Chemical Corporation, New York, discussed the influence of government research on chemical development, with particular reference to the proposed National Science Foundation, with a possible future expenditure of $200,000,000 per year out of taxes.

"No one seems to have stated in simple language what this foundation is going to do that would be of real benefit to our citizens and to our industry," Dr. Keyes pointed out. "You who are in industry know that when you ask for money for a project you have to justify it. Why should our government be different than you?

"Did you ever ask your management for funds with the glib explanation that if they gave you these funds you were certain you could acquire the necessary staff, do the work and produce glorious results highly beneficial to your company on a project which you could not even name at the present time because you did not know what it was? Our government will be in no better position than you when the time comes that a National Science Foundation is set up and appropriations are requested."

Effect on Industry

Dr. Keyes declared that huge sums spent by the government on research, whether fundamental or applied, directly affect the amount of money spent by industry on development. No industrial group can afford to duplicate research or development work done by the government at taxpayers' expense, he added, as they simply cannot justify to their stockholders the large development budget if it means competing with government.

"It is a well-known fact that patents resulting from governmental research create a situation that further discourages industry from doing its own development," Dr. Keyes continued. "A patent is a contract between the inventor and the government representing us as citizens. When the government owns the patent, no such contract exists.

"The governmental patent is worthless from a monopoly standpoint as no monopoly can exist. The greater the expenditure by the government for research and development, the greater the number of government-owned patents, for which exclusive rights cannot be obtained, and the less the excuse of private industry to spend money on development."

Construction Costs Influence

Dr. R. P. Soule, director of the business development division of the Irving Trust Company, New York, declared that 97 percent of chemical industry financing in 1950 will be done out of retained earnings. He said that two-thirds of these funds will be applied to expansion projects and one-third to modernization, which ratio directly reverses that obtaining for all types of manufacturing.

Dr. Soule denied the existence of an actual shortage of capital, explaining that demand for new financing had risen to unprecedented levels in the last few years. Today, he said, a new product must earn profits substantially higher than those produced by an established item to warrant its introduction because costs of low-risk financing through common stock have increased so greatly.

Management's attitude toward a proposed new product will be governed mainly by the precision with which stability and durability of its earnings can be forecast, he continued. Greater retention of earnings is required today, he said, to guard against present inadequacy of depreciation allocations under increased prices. Therefore, he concluded, management will regard most favorable new products that can be manufactured with existing facilities.

Construction Costs Stabilizing

Harry P. Broom of E. B. Badger & Sons Company stated that the costs of four important construction materials, brick and tile, steel; copper and lumber have been reasonably stable during the past six to twelve months and that, despite continually increasing labor rates, the more efficient use of manpower has made it possible to to reach a fairly stable level of labor costs during the past year.

"It would seem," he said, "that we can look with some confidence to a period of relative stability in construction prices. This opinion is shared by many engineering and construction firms who will, if

—Continued on page 33

NFA Meeting Theme 'Century of Progress'

"A Century of Progress With Fertilizers" will be the theme of the meeting of the National Fertilizer Association, to be held at the Greenbrier, White Sulphur Springs, W. Va., on June 12 to 14, it was announced last week.

The names and subjects of those who have already accepted the association's invitation to address the convention are Allan B. Kline, president of the American Farm Bureau Foundation, "A Century of Progress on the Farm"; Robert M. Salter, chief of the bureau of plant industry, soils and agricultural engineering of the Department of Agriculture, "A Century of Progress in Fertilizer Research," and Ralph Robey, chief economist for the National Association of Manufacturers, "A Century of Progress in Our Country's Economy."

The association's plant food research committee will present a panel on "A Century of Progress in Compounding and Utilizing Fertilizers," with the following among the participants:—H. B. Siems, director of research for the plant food division of Swift & Co.; S. D. Gray, northeast manager for the American Potash Institute; H. H. Tucker, president of the Coke Oven Ammonia Research Bureau; K. D. Jacob, head of the division of fertilizer and agricultural lime of the bureau of plant industry, soils and agricultural engineering, and Vincent Sauchelli, director of agricultural research for the Davison Chemical Corporation.

AIC Presents Honorary Membership to Esselen

Dr. Gustavus J. Esselen, vice-president of the United States Testing Company, Hoboken, N. J., in charge of its Esselen Research Division, Boston, was presented with an honorary membership in the American Institute of Chemists at the first meeting of the institute's newly created New England chapter on March 20.

Dr. G. J. Esselen

The certificate of honorary membership was presented to Dr. Esselen by the institute's president, Lawrence H. Flett, National Aniline Division, Allied Chemical & Dye Corporation, who cited the recipient as a chemist "who throughout his life has done much to bring about a greater understanding by chemists of their profession and a greater respect by chemists for each other's technical accomplishments."

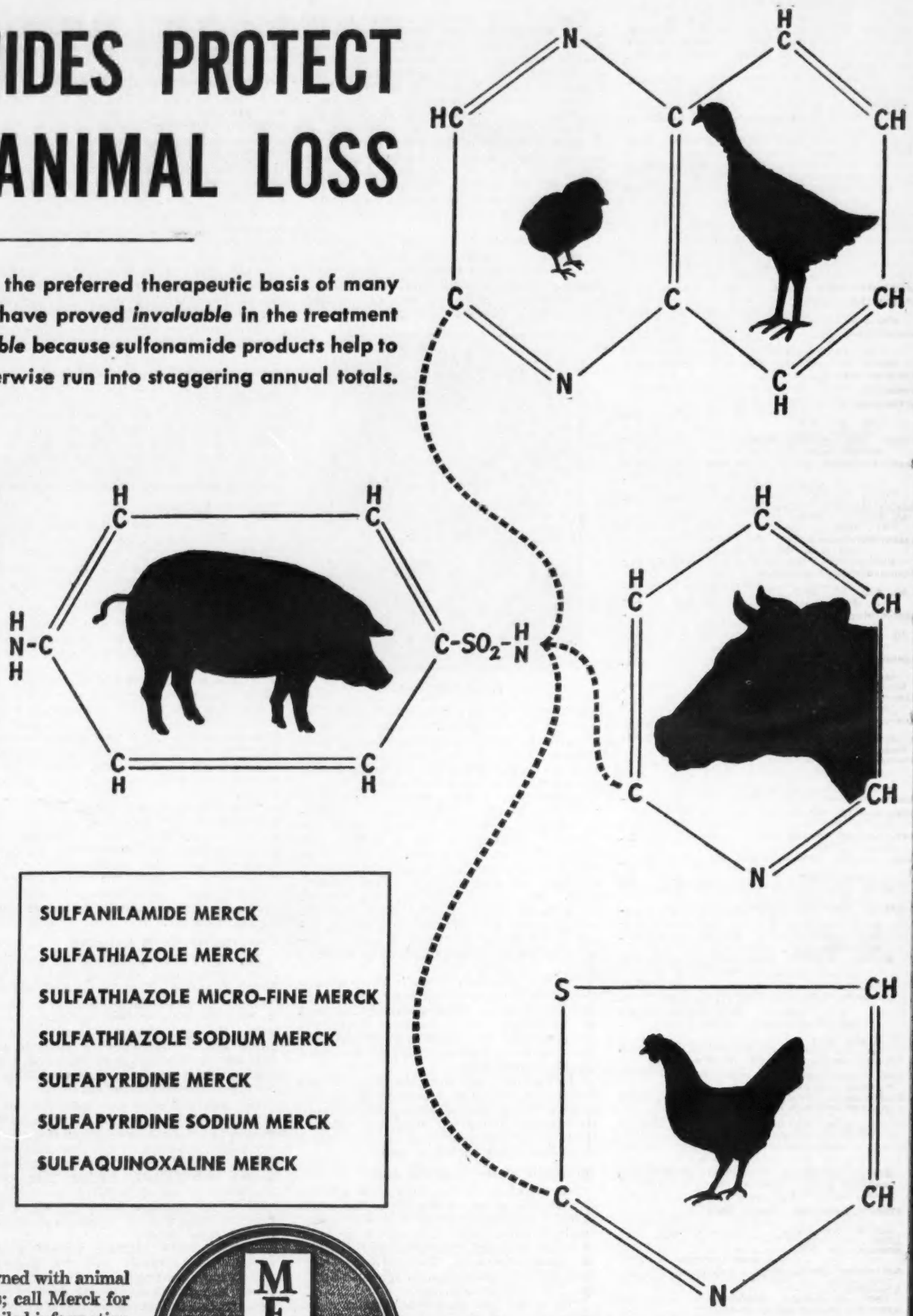
Dr. Esselen became vice-president and director of research of Skinner, Sherman & Esselen, Inc., in 1921, after a period on the research staff of the General Electric Company. In 1930 he became president of the firm of Gustavus J. Esselen, Inc., and subsequently assumed the presidency of the Esselen Research Corporation. The latter firm became the Esselen Research Division of the United States Testing Company last year.

Blaw-Knox to Use Mathieson Technic in Building Plants

Mathieson Chemical Corporation, Baltimore, Md., has authorized the chemical plants division of the Blaw-Knox Company, Pittsburgh, to build chlorine and caustic soda plants using the Mathieson stationary mercury cell technic. Blaw-Knox will serve as engineer-contractor for the design and erection of plants embodying the new technique. The plants will cover a wide range of capacities, with a standardized small "packaged unit" specially designed for small producers and the foreign trade.

SULFONAMIDES PROTECT AGAINST ANIMAL LOSS

Merck Sulfonamides constitute the preferred therapeutic basis of many important preparations which have proved *invaluable* in the treatment of diseases of animals; *invaluable* because sulfonamide products help to avoid losses which would otherwise run into staggering annual totals.



MANUFACTURERS PREFER Merck Sulfonamides as component parts of their own product because:

1. The advantages of SULFANILAMIDE, SULFATHIAZOLE, and SULFAPYRIDINE in the treatment of animals have been established by extensive clinical trials. More than one hundred published studies reflect the clinical experience with these drugs in the therapy of numerous diseases and in different species of animals. Equally impressive are the reports by outstanding poultry authorities on the effectiveness of SULFAQUINOXALINE for the prevention and control of coccidiosis. Since its introduction into commercial use, the value of Sulfaquinoxaline has been proved in tens of millions of birds.

2. Since the early beginnings of sulfonamide therapy, the combined efforts of Merck facilities have been devoted not only to *producing* uniformly pure sulfonamides of highest quality but also to encouraging their *specific application* in the treatment of animals.

SULFANILAMIDE MERCK
SULFATHIAZOLE MERCK
SULFATHIAZOLE MICRO-FINE MERCK
SULFATHIAZOLE SODIUM MERCK
SULFAPYRIDINE MERCK
SULFAPYRIDINE SODIUM MERCK
SULFAQUINOXALINE MERCK

If your production program is concerned with animal health—it may call for sulfonamides; call Merck for Sulfonamides. Your requests for detailed information and quotations are cordially invited.

MERCK & CO., Inc. Manufacturing Chemists
RAHWAY, N. J.

Merck Sulfonamides

Current Market Quotations

Chemicals and Related Materials

March 24, 1950

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4. The figures in the two columns do not represent bid and asked prices nor a range over the week. They are the quotations prevailing on the date above, on the basis of differences in one or more of these factors:—Quantity, quality, locality, individual supplier's views.

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A

Acacia (see Gum, arabic).			
Acenaphthene, m.p. below 92.5 C., dms., works	lb	.40	—
above 92.5 C, dms., works	lb	.50	—
Acetaldehyde, 99%, dms., c.l., frt. equald.	lb	.11½	—
l.c.l., frt. equald	lb	.12	.12½
tanks, frt. equald	lb	.09½	—
Acetaldol (see Aldol).			
Acetamide, tech., fib., dms	lb	.45	—
Acetanilide, tech., bbls., c.l., dlvd. or frt. equald.	lb	.22	—
l.c.l., ton lots	lb	.23	—
smaller lots	lb	.26	—
USP, bbls., 2,000-lb. lots	lb	.50	—
smaller lots	lb	.56	—
Acetic anhydride, dms., c.l., frt. alld. E.	lb	.13	—
l.c.l., frt alld. E	lb	.14½	—
tanks, frt. alld. E	lb	.11½	—
Acetoacetanilide, bbls., dlvd.	lb	.67½	—
fib. dms., c.l., dlvd	lb	.66½	—
l.c.l., dlvd	lb	.67½	—
Acetoacetorthoanisidide, fib. dms., works, 500 lbs. or more	lb	1.50	—
smaller lots, same basis	lb	1.75	—
Acetoacetorthochloranilide, bbls., dlvd.	lb	1.15	—
fib. dms., c.l., dlvd	lb	1.14	—
l.c.l., dlvd	lb	1.15	—
Acetoacetorthotoluidide, bbls., dlvd.	lb	.72½	—
fib. dms., c.l., dlvd	lb	.71	—
l.c.l., dlvd	lb	.72	.78
Acetone, CP, dms., c.l., dlvd	lb	.09	—
l.c.l., dlvd	lb	.09½	.10
tanks, dlvd	lb	.07½	—
Methyl (see M).			
Acetonitrile, dms., c.l., works	lb	.43	—
l.c.l., works	lb	.45	—
Acetophenetidin, USP, bbls., works, frt. equald.	lb	1.10	1.33
Acetophenone, cns., dms	lb	1.30	1.55
tech., l.c.l., dms., works	lb	.75	—
Acetoactoparaphenetidide, dms., 500 lbs. or more, works.	lb	1.65	—
smaller lots, same basis	lb	1.90	—
Acetyl chloride, cbys., works	lb	.50	.60
Acetyltributyl citrate, dms	lb	.43	.45
smaller pkgs	lb	.48	.54
Acetyltriethyl citrate, dms	lb	.36	.38
smaller pkgs	lb	.47	.47
Acid, abietic, com'l, dms., c.l., works	lb	.10	—
l.c.l., works	lb	.1145	—
cryst., dms., c.l., works	lb	.05½	—
l.c.l., works	lb	.06	.06½
Acetic, com'l or redist., 28%, bbls.	100 lbs	4.00	—
56%, bbls	100 lbs	7.00	—
70%, bbls	100 lbs	8.40	—
80%, bbls	100 lbs	9.40	—
glacial, synthetic, CP, dms., works	100 lbs	13.00	—
cbys., works	100 lbs	18.00	-22.00
USP, cbys., works	100 lbs	13.50	-17.50
tech., dms., c.l., works	100 lbs	9.00	9.50
l.c.l., works	100 lbs	9.50	-10.00
tanks, works	100 lbs	7.50	—

Acetic acid price ranges above are for 40 bbls. or more and for smaller lots. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots	lb	.53	—
standard, fine, cryst., gran., (30-40 mesh) powd. (80 mesh), bbls. same basis.	lb	.50	—

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Aconitic, 5,000 lbs. 1 shipt., dms.	lb	.49	—
smaller lots, dms	lb	.49½	.54½
Adipic, fib. dms., works	lb	.26½	—
Aminoacetic, NF, bbls., frt. adjusted	lb	1.50	1.75
Anthranilic resub., bbls	lb	2.10	—
tech., bbls.	lb	1.10	—

Arsenous, tech (see Arsenic, white).
USP (see Arsenic trioxide).

Ascorbic, USP, dms., 500-kilo lots.	kilo	24.50	—
25-50 kilo lots	kilo	25.00	—
10-kilo lots	kilo	25.35	—
5-kilo lots	kilo	25.70	—
bots., kilo lots	kilo	26.41	—
500 grams	kilo	27.47	—
Battery, cbys., c.l., E. works.	100 lbs	1.60	1.75
l.c.l., E. works	100 lbs	2.15	2.35
Benzoic, tech. bbls., dms., 100 lbs. or more	lb	.43	—
USP, bbls., dms., 100 lbs. up	lb	.54	—
Betaoxynaphthoic, bbls., works	lb	1.25	—
Boric, tech. 99½%, cryst., bgs., c.l., works	ton	115.25	—
ton lots ex whse, N. Y. or Chi.	ton	160.00	—
less ton lots, same basis.	ton	165.00	—
bbls., c.l., works	ton	135.25	—
ton lots, ex whse., N. Y. or Chi.	ton	180.00	—
less ton lots, same basis.	ton	185.00	—
bulk, c.l., works	ton	111.75	—
gran., bgs., c.l., works	ton	90.25	—
ton lots, ex whse., N. Y. or Chi.	ton	135.00	—
less ton lots, same basis.	ton	140.00	—
bbls. c.l., works	ton	110.25	—
ton lots, ex whse., N. Y. or Chi.	ton	155.00	—
less ton lots, same basis.	ton	160.00	—
Boric, powd., bgs., c.l., works	ton	86.75	—
powd., bgs., c.l., works	ton	95.25	—
ton lots, ex whse., N. Y. or Chi	ton	140.00	—
less ton lots, same basis.	ton	145.00	—
bbls., c.l., works	ton	115.25	—
ton lots, ex whse., N. Y. or Chi	ton	160.00	—
less ton lots, same basis.	ton	165.00	—
bulk, c.l., works	ton	91.75	—

USP $25 per ton higher.

Broener's, bbls	lb	1.34	—
Butyric, 99%, dms., c.l., works	lb	.34½	—
l.c.l., works	lb	.35	—
tankcars, works	lb	.33	—
Cacodylic, bots.	lb	10.00	-11.00
Camphoric, natural, dms	lb	5.00	5.65
synth., dms	lb	4.00	4.75
Capric, tech., dms	lb	.40½	—
Caprylic, dms	lb	.40½	—
Castor oil, split, dms	lb	.26½	.27
Chlorosuiphonic, dms., c.l., works	lb	.03¼	—
l.c.l., works	lb	.03¾	—
tanks, works	lb	.02¾	—
Chromic, 99½-99¾%, dms., c.l. works	lb	.25½	—
l.c.l., works	lb	.26	.27

USP (see Chromium trioxide).

Cinnamic, refd., bots	lb	2.50	4.00
Citric, anhyd., gran., fine gran., dms., c.l.	lb	.26½	—
10,000 lbs., 1 ship't	lb	.27	—
smaller lots	lb	.27½	—
kgs.	lb	.28½	—

Anhydrous citric acid powder, ½c. per lb higher.

USP, cryst., dms., c.l.	lb	.27½	—
10,000 lbs., 1 ship't	lb	.28	—
smaller lots	lb	.28½	—
kgs.	lb	.29½	—
gran., fine gran., dms., c.l.	lb	.24½	—
10,000 lbs., 1 ship't	lb	.25	—
smaller lots	lb	.25½	—
kgs.	lb	.26½	—

USP citric acid powder ½c. per lb. higher.

Cleve's, mixed, bbls	lb	.65	.66
Coconut oil, dist., dms	lb	.23¼	.24¼
double dist., dms	lb	.25¼	.26¼
Corn oil, s.d., dms	lb	.10	.10½
Cottonseed oil, dist., dms	lb	.09¼	.10¼
Cresylic, dom., coaltar, 50% above 207°C, non-ret. dms., c.l., frt. equald	gal	.81	.96
l.c.l., non-ret. dms., same basis	gal	.84	.99
ret. dms., c.l., same basis	gal	.78	—
l.c.l., same basis	gal	.81	—
Acid, cresylic, dom., coaltar, 50% above 207°C, tanks, same basis	gal	.70	.85
204° to 207° C, non-ret. dms., c.l., same basis	gal	.86	.98
l.c.l., same basis	gal	.90	.99
ret. dms., c.l., same basis	gal	.83	—
l.c.l., same basis	gal	.86	—
tanks, same basis	gal	.75	.85
petroleum, 179°C to 198°C, non-ret. dms., c.l., San Francisco and Los Angeles	gal	.72½	—
l.c.l., same basis	gal	.74½	.76½
tanks, same basis	gal	.62	—
195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles	gal	.60½	—
l.c.l., same basis	gal	.62½	.64½
tanks, same basis	gal	.50	—
200°C to 222°C, tanks, Wilmington, Cal.	gal	.50	—
211°C to 236°C, non-ret. dms., c.l., San Francisco and Los Angeles	gal	.58½	—
l.c.l., same basis	gal	.60½	.62½
tanks, same basis	gal	.48	—
220°C to 242°C, tanks, Wilmington, Cal	gal	.48	.51
237°C to 265°C, non-ret. dms., c.l., San Francisco and Los Angeles	gal	.56½	—
l.c.l., same basis	gal	.58½	.60½
tanks, same basis	gal	.46	—
245°C to 298°C, tanks, Wilmington, Cal	gal	.46	—
295°C to 325°C, tanks, Wilmington, Cal	gal	.36	—
imported, coaltar, 75% at 213°C or over, dms., c.i.f.	gal	.46	.50
Crotonic, fib dms., works	lb	.29	—
Cyanoacetic, tech., bbls	lb	.90	1.25
Desoxycholic	lb	17.00	-22.00
Dichlorophenoxyacetic, (see "D", 2, 4-D)			
Diethylbarbituric (see Barbital).			
Diglycolic, bgs., works	lb	.23	—
Ethylhexoic, dms., c.l., works	lb	.31	—
l.c.l., works	lb	.31½	—
tanks, works	lb	.29½	—
F, bbls., works	lb	1.87	1.93
Folic, bots., fib. ctns., kilo or more	gram	2.00	—
Formic, 85%, cbys., c.l., works	lb	.13	.13¼
l.c.l., works	lb	.13½	.14
90%, cbys., c.l., works	lb	.13½	.14
l.c.l., works	lb	.14	.14¼
Fumaric, tech., bbls., dms	lb	.30	.31
Gallic, NF VII, bbls., 1,000-lb. lots	lb	1.60	—
smaller lots	lb	1.63	1.65
technical, bbls., 1,000-lb. lots	lb	1.43	—
smaller lots	lb	1.46	1.48
Gamma, bbls	lb	1.20	—
Acid, gluconic, tech., 50%, bots.	lb	.23	.31
dms	lb	.14	—
kgs.	lb	.16	—
Glutamic, nacvo, 99%, fiber dms., 100 lb. lots, works	lb	2.30	2.40
25 lb. lots	lb	2.45	—
Glycerophosphoric, 35%, dms., works	lb	2.15	2.25
Glycolic (see Acid, hydroxyacetic).			
H, 100% basis, bbls., works	lb	.73½	—
Hydriodic, 45-47%, cbys	lb	2.57	2.59
57%, cbys	lb	2.86	—
Hydrobromic, medicinal, 48%, cbys., dlvd. E	lb	.38	—
tech., 48%, cbys., dlvd. E	lb	.34	.36
34%, cbys., dlvd. E	lb	.35	.37
Hydrochloric (see Acid, muriatic).			
Hydrocyanic, cyls., works	lb	1.00	—
dilute, NF, 2%, 5-lb. bots	lb	.37	—
Hydrofluoric, anhyd., cyls., works.	lb	.19	.19½
tanks, works	lb	.16½	—
30%, wood or rubber, dms., works	lb	.03½	.09
70%, steel dms., works	lb	.143	.148
Hydrofluosilicic, 30-35%, bbls	lb	.08	.09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila	lb	.084	—
tanks, Belle, W. Va., 100% basis	lb	.083	—
Hypophosphorus, purif., 30%, cbys.	lb	1.30	1.33
USP, cbys	lb	.78	—
J, bbls., works, 100% basis	lb	2.50	2.65
L, bbls., works	lb	.95	—
Lactic, edible, 50%, bbls., 20 or more	lb	.16	.18
smaller lots	lb	.17	.19
80%, bbls. 20 bbls. or more	lb	.283	.332
plastic grade, 50%, bbls., 20 or more	lb	.19¾	—
10 or less	lb	.20¾	—
80%, bbls., 5 or less	lb	.3495	.3548
tech., 22%, bbls., c.l., works	100 lbs	5.80	—
l.c.l., works	100 lbs	6.20	—
cbys., works	100 lbs	6.70	—
44%, bbls., c.l., works	100 lbs	10.95	—
l.c.l., bbls., works	100 lbs	11.35	—
cbys., works	100 lbs	11.85	—
NF, 85%, cbys	lb	.69	.73
Laurent's, bbls	lb	.87	—
Lauric, dist., 85-90%, dms	lb	.26	.28½
60%, dms.	lb	.23	.25½
Linseed oil, reg. dist., dms	lb	.2150	.2210
water-white, dms	lb	.2450	.2510
Maleic, powd., dms	lb	.30	.31
Anhydride (see M).			
Malic, dms	lb	.45	—
Mandelic, NF, dms., 1,000-lb. lots	lb	1.85	—
smaller lots	lb	1.90	2.10
Methacrylic, dms., c.l., and truck-loads, works	lb	.76	—
less than truckload, works	lb	.76½	.80
Mixed, tanks, nitric unit	lb	.05	.06
sulphuric unit	lb	.0065	.009
Molybdic, dms., 85%-92%, works	lb	.88	—
Monochloroacetic, purified, flake, 99%, dms	lb	.22½	.23¼
tech., flake, 96-97%, bbls	lb	.18	.19
Muriatic, 18°, cbys., c.l., works.	100 lbs	1.65	—
l.c.l., works	100 lbs	2.05	2.75
tanks, works	ton	20.00	—
20°, cbys., c.l., works	100 lbs	1.90	—
tanks, works	ton	22.00	—
22°, cbys., c.l., works	100 lbs	2.40	—
tanks, works	ton	27.00	—
CP, USP, consumers, cbys., extra, c.l., frt. equald.	lb	.07¾	—
l.c.l., same basis	lb	.09¼	.09¾
5 pint bottles extra, cs., c.l., frt. equald.	lb	.12¾	—
l.c.l., same basis	lb	.14½	.15¼

Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.

Myristic, dist., dms	lb	.30½	—
Naphthenic, 220-230 acidity, dms., works	lb	.13	—
tanks, works	lb	.11	—
230-240 acidity, dms., works	lb	.22	—
tanks, works	lb	.19	—

Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol (1)-5-sulphonic see Acid, L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma)
(5)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broener's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).

Neville and Winther's, dms	lb	.88	—
Nicotinic, USP, dms., frt. adjusted	kilo	8.00	8.30

Nicotinic amide (see Nicotinamide).

Nitric, 36° cbys., c.l., E. works	100 lbs	5.00	—
l.c.l., E. works	100 lbs	5.40	6.10
38°, cbys. c.l., E. works	100 lbs	5.50	—
l.c.l., E. works	100 lbs	5.90	6.60
40°, cbys., c.l., E. works	100 lbs	6.00	6.50
l.c.l., E. works	100 lbs	6.40	7.10
42°, cbys., c.l., E. works	100 lbs	6.50	7.00
l.c.l., E. works	100 lbs	6.90	7.60
CP, NF, consumers, cbys., extra, c.l., frt. equald.	lb	.11½	—
l.c.l., same basis	lb	.13	.13½
5 pint bottles extra, cs., c.l., frt. equald	lb	.15½	—
l.c.l. same basis	lb	.17	.18

Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.

Octoic (see Acid, ethylhexoic).
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).

Orthocresotinic, dms., ton lots, works	lb	.62	—
smaller lots, works	lb	.64	—

Abbreviations

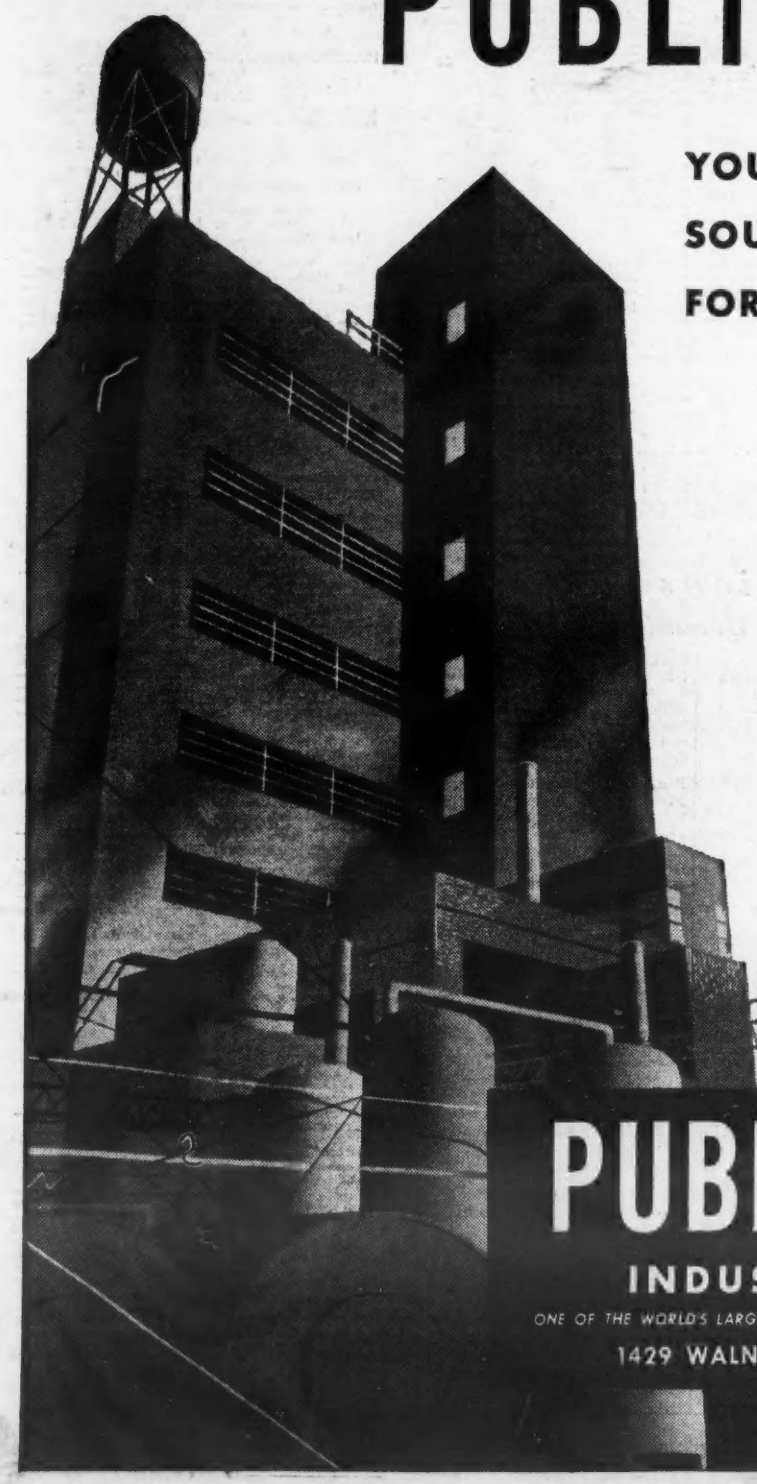
Used in OPD Market Quotations

ACS	American Chemical Society	dist.	distilled	neut.	neutral.
		dextro.	dextrorotatory	NF	National Formulary
alld.	allowed	distr.	distributor		
ammo.	ammonia	djns.	demijohns	nom.	nominal
amorph.	amorphous	dlvd.	delivered	No.	number
anhyd.	anhydrous	dms.	drums	ord.	ordinary
a.p.a.	available phosphoric acid	dom.	domestic	oz.	ounce
		E.	east	Pac.	Pacific
artif.	artificial	e.p.	end point	pf.	proof
ASTM.	American Society for Testing Materials	equald.	equalized	phos.	phosphate
		F.	fahrenheit	photo.	photographic
		ferment.	fermentation	pkgs.	packages
Be.	Baume	ffa.	free fatty acid	powd.	powdered
bgs.	bags	ffe.	free from chlorine	precip.	precipitated
bbls.	barrels			prod.	producer
bls.	bales	fib.	fiber	pt.	point
bots.	bottles	f.o.b.	free on board	pulv.	pulverized
b.p.	boiling point	F.P.A.	free of prussic acid	purif.	purified
b.p.l.	bone phosphate of lime	frt.	freight	redist.	redistilled
		fus.	fused	refd.	refined
b.r.	boiling range			refy.	refinery
bxs.	boxes	gal.	gallon	reg.	regular
C.	centigrade	gran.	granular	resub.	resublimed
cbys.	carboys	grd.	ground	ret.	returnable
CD	completely denatured	i.&a.	iron and aluminum	SD	specially denatured
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	s.d	single distilled
				S. E.	southeast
ckg.	casks	imp.	imported	secs.	seconds
c.l.	car lots	incl.	included	s.g.	specific gravity
cns.	cans	indust.	industrial	ship't	shipment
col.	color	kgs.	kegs	solut.	solution
com'l	commercial	lacq.	lacquer	s.u.	standard unit
conc.	concentrated	lb.	pound	synth.	synthetic
CP	chemically pure	l.c.l.	less than car lots	tech.	technical
cps.	centipoises	liq.	liquid	USP	U. S. Pharmacopoeia
cryst.	crystal	m.a.p.	mixed aniline point	vis.	viscosity
cs.	cases			VM&P	varnish makers & painters
ctns.	cartons	min.	minimum		
cyls.	cylinders	m.p.	melting point	W	west
dbl.	double	N.	nitrogen	w.w.	water white
denat.	denatured	nat.	natural	whse.	warehouse
dest.-dist.	destructive-distilled				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown, gives the price of 2,000 pounds of the material.

Acid, Oxalic—Allspice

Acid, oxalic, bbls., c.l., works	lb.	.14¼	—
10,000 lbs., works	lb.	.14½	—
smaller lots, works	lb.	15¼	15½
Palm oil, white, dist., dms	lb.	.21¼	.21¾
Para-aminobenzoic, purified, dms., 100 lbs. or more, works	lb.	3.75	—
smaller lots, works	lb.	3.85	4.00
technical, dms	lb.	1.84	—
Para-aminosalicylic, dms., 1,000-lb. lots or more	lb.	6.50	—
smaller lots	lb.	6.55	7.50
Paramethylphenylcinchonic (see Neocinchophen).			
Paranitrobenzoic cns.	lb.	.87	—
Paratoluidinmetasulphonic, bbls., works	lb.	.92	—
Peanut oil, s.d., dms	lb.	.12¾	.13¾
Perchloric, 60%, cbys., works	lb.	.58	.62
70-72%, cbys., works	lb.	.61	.66
Phenylacetic, bots	lb.	1.51	1.75
Phenylcinchoninic (see Cinchophen).			
Phenylglycollic (see Acid mandelic).			
Phosphoric, food grade, 75%, cbys., c.l., works, frt. equald 100 lbs.		6.50	—
l.c.l., works, frt. alld. 100 lbs.		7.50	—
tanks, works, frt. equald 100 lbs.		4.50	—
NF, 85%, cbys., c.l.	lb.	.10½	—
For shipments in cbys., add handling charges.			
Picramic, bgs.	lb.	.65	.70
Picric, tech., bbls.	lb.	.32	.33
NF, bbls.	lb.	.42	—
Propionic, nat., dms., works	lb.	.18	—
tanks, works	lb.	.17	—
synth., pure, dms., works	lb.	.21	—
tanks, works	lb.	.19	—
Pyrogallic, tech., bbls.	lb.	No prices.	
NF, cryst., dms	lb.	2.95	3.18
resub., dms	lb.	3.30	3.45
Pyroligneous, dms. incl., l.c.l., ex whse	gal.	.43	—
Acid, ricinoleate (see Acid, castor oil, split).			
S, bbls., works	lb.	2.97	3.00
Salicylic, crude, bbls	lb.	.28	—
sublimed, tech., bbls., c.l.	lb.	.31	—
l.c.l.	bl.	.38	—
dyestuffs grade, bbls	lb.	.32	—
USP, cryst., bbls	lb.	.40	—
powder, bbls.	lb.	.45	—
Sebacic, purified, dms., c.l., works.	lb.	.47	—
l.c.l. works	lb.	.49	.53
Soybean oil, single dist., dms	lb.	.10¾	.11¾
double dist., dms	lb.	.11¾	.12¾
Stearic, double pressed, bgs	lb.	.14	.15
single-pressed, bgs.	lb.	.13	.14
triple-pressed, bgs.	lb.	.16¼	.17¼
Succinic, bbls., cryst., purified, works	lb.	.75	—
tech., bbls., works	lb.	.65	.75
Sulphanilic, tech., dms., c.l., works	lb.	.15	—
l.c.l., works	lb.	.17	—
Sulphuric, 60° Be, cbys., c.l., works	100 lbs.	1.40	—
l.c.l., works	100 lbs.	1.80	2.50
tanks, works	ton.	13.75	-14.50
66° Be, cbys., c.l., works	100 lbs.	1.65	—
l.c.l., works	100 lbs.	2.05	2.75
tanks, works	ton.	17.00	-18.00
98%, tanks, works	ton.	19.00	—
CP, NF, consumers, cbys., extra, c.l., works, frt. equald	lb.	.07¾	—
l.c.l., same basis	lb.	.09¼	.09¾
5 pt. bottles extra, cs., c.l., works, frt. equald	lb.	.11¼	—
c.l., same basis	lb.	12¾	.13¾
fuming, 20%, tanks, works	ton.	20.00	—
	ton.	20.00	—
Tallow, dist., dms	lb.	.09¾	.10¼
Tannic, tech., 60-62%, dms	lb.	.68	.69
70-72%, dms.	lb.	.80	.85
75-76%, dms.	lb.	.86	.90
Aconite leaves, bls	lb.	.55	.60
1,000-lb. lots	lb.	1.45	—
smaller lots	lb.	1.46	1.55
powder, bbls., 1,000-lb. lots	lb.	1.35	—
smaller lots	lb.	1.36	1.50
Tartaric, USP, dom., 230, 250 lb. dms., 10,000 lbs., 1 ship't.	lb.	.31½	—
smaller lots	lb.	.32	—
100-lb. dms	lb.	.33	—
small, dms	lb.	.35	.37
imported, kgs	lb.	.28	.30
Thioglycolic, refined, bbls., cbys., basis 100%	lb.	1.60	1.80
tech., bbls., cbys., basis 100%	lb.	1.40	—
Tobias, bbls.	lb.	.65	—
Trichloroacetic, bots.	lb.	2.00	2.50
Toluenesulphonic, dms., c.l., works	lb.	.18½	—
l.c.l., works	lb.	.20	—
tanks, works	lb.	.17	—
Tungstic, tech., kgs., works	lb.	2.20	2.40
Aconite leaves, bls	lb.	.55	.60
Root, bbls.	lb.	.60	.70
Aconitine, amorph., mild, bots.	oz.	27.50	-32.50
cryst., potent, bots	oz.	78.00	-85.00
Acrolein, dms., works	lb.	.50	—
Acrylonitrile, dms., c.l., works	lb.	.36½	—
l.c.l., works	lb.	.37	.55
tanks, works	lb.	.35	—
Adeps lanae (see Lanolin)			
Adonis vernalis herb, bls	lb.	.30	.40
Agar, USP, Kobe, No. 1 strip, bls.	lb.	1.35	1.40
powdered, 30 mesh, fib. dms	lb.	1.65	—
Agaric, white, bls	lb.	1.50	1.75
Agrimony herb, bls	lb.	.30	.35
Alanine, dextro-laevo, dms., works,	lb.	8.50	-11.00
Albumen (egg), edible, flake, bbls	lb.	1.30	1.40
powd., bbls	lb.	1.35	1.45
tech., cryst., bbls.	lb.	.78	.85
Albumin, blood, dark (see Blood, dried, soluble)	lb.	.67¼	.72½
light, dms., l.c.l.	lb.		
Egg (see Albumen).			
Alcohol, allyl, dms., c.l., dlvd.	lb.	.31½	—
works	lb.	.32½	—
l.c.l., dlvd	lb.	.32½	—
works	lb.	.33	—
tanks, dlvd	lb.	.30	—
works	lb.	.31	—
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss	lb.	.16	—
l.c.l., frt. alld. E. of Miss	lb.	.17	—
tanks, frt. alld. E. of Miss	lb.	.15	—
(see also Fusel oil, ref.)			
fermentation, refined, 126-132°C, dms., c.l., dlvd.	lb.	.33½	—
l.c.l., dlvd.	lb.	.34½	—
tanks, dlvd	lb.	.32	—
128-132°C, dms., l.c.l., dlvd.	lb.	.36	—
ACS grade, dms., l.c.l., dlvd	lb.	.42	—
Benzyl, dms.	lb.	.60	.88
tech., dms., works, frt. equald.	lb.	.45	.50
Butyl, fermentation, normal, Ill., ind. prod., dms., c.l., frt. alld	lb.	.13½	—
l.c.l., frt. alld	lb.	.14½	—
tanks, frt. alld	lb.	.12	—
tankwagon, frt. alld	lb.	.12½	—
other production, dms., c.l., frt. alld	lb.	.13½	—
l.c.l., frt. alld	lb.	.14½	—
tanks, frt. alld	lb.	.12	—
synthetic, normal, dms., c.l., frt. alld	lb.	.13½	—
l.c.l., frt. alld	lb.	.14½	—
tanks, frt. alld	lb.	.12	—
secondary, dms., c.l., frt. alld.	lb.	.10½	—
l.c.l., dlvd., frt. alld	lb.	.11	—
tanks, dlvd., frt. alld	lb.	.09	—
tertiary, dms., c.l., frt. alld.	lb.	.13½	—
l.c.l., frt. alld	lb.	.14	—
tanks, frt alld	lb.	.12	—
Capryl, dms., c.l., works	lb.	.26½	—
l.c.l., works	lb.	.27½	—
tanks, works	lb.	.25	—
Cetyl, dom., CP., fiber cns., 1,000 lbs.	lb.	1.50	—
smaller lots	lb.	1.55	—
Cinnamic, bots	lb.	2.75	2.95
Denatured, CD12, CD13, CD14, dms., dlvd. E. of Miss. R	gal.	.47½	.48½
l.c.l., dlvd. E. of Miss. R.	gal.	.51½	.57½
tanks, dlvd. E. of Miss. R	gal.	.37½	.38½
Tankcar sales require written authorization by Alcohol Tax Unit.			
SD1, 190 pf, dms., c.l., dlvd. E. of Miss. R.	gal.	.47	—
l.c.l., same basis	gal.	.51	.56
tanks, same basis	gal.	.37	—
SD2B, dms., c.l., E. of Miss. R.	gal.	.46	—
l.c.l., same basis	gal.	.50	.55
tanks, same basis	gal.	.36	—
SD23H, dms., c.l., dlvd. E. of Miss. R.	gal.	.48	.48½
l.c.l., same basis	gal.	.52	.57½
tanks, same basis	gal.	.38	.38½
SD29, denatured, with acetaldehyde, dms., c.l., dlvd. E. of Miss. R.	gal.	.46½	—
l.c.l., same basis	gal.	.50½	.55½
tanks, same basis	gal.	.36½	—
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.			
Proprietary solvent, dms., c.l., dlvd. E. Miss. R.	gal.	.48½	—
l.c.l., same basis	gal.	.52½	.57½
tanks, same basis	gal.	.38½	—
Tankcar sales require written authorization by Alcohol Tax Unit.			
Special solvent (see Alcohol, denat., proprietary).			
Diacetone, acetone free, dms., c.l., dlvd	lb.	.13½	—
l.c.l., dlvd	lb.	.14	—
tanks, dlvd	lb.	.12	—
tech., dms., c.l., dlvd	lb.	.13	—
l.c.l., dlvd	lb.	.13½	—
tanks, dlvd	lb.	.11½	—
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. Miss. R.	gal.	17.55	—
l.c.l., same basis	gal.	17.59	-17.64
tanks, same basis	gal.	17.45	—
tax free, dms., c.l., dlvd. E. Miss. R.	gal.	.45	—
l.c.l., same basis	gal.	.49	.54
tanks, same basis	gal.	.35	—
absolute, 200 pf., tax paid, dms., c.l., same basis	gal.	18.50	—
l.c.l., same basis	gal.	18.54	-18.59
tanks, same basis	gal.	18.40	—
Ethylhexyl, dms., c.l., works	lb.	.30	—
l.c.l., same basis	lb.	.30½	—
tanks, same basis	lb.	.28½	—
Furfuryl, tech., cns., works	lb.	.30	—
dms., c.l., works	lb.	.21½	—
l.c.l., works	lb.	.23	—
tanks, works	lb.	.18	—
Isoamyl (see Alcohol, amyl refined, fermentation).			
Isobutyl, dms., c.l., dlvd	lb.	.13½	—
l.c.l., works	lb.	.14½	—
tanks, dlvd	lb.	.12	—
Iso-octyl, dms., c.l., works	lb.	.28¼	—
l.c.l., works	lb.	.28¾	—
tanks, works	lb.	.27¾	—
Isopropyl, refd., 91%, dms. incl., c.l., dlvd	gal.	.38	.42
l.c.l., dlvd	gal.	.41	.45
tanks, dlvd	gal.	.28	.32
95%, dms. incl., c.l., dlvd	gal.	.39½	.43½
l.c.l., dlvd	gal.	.42½	.46½
tanks, dlvd	gal.	.29½	.33½
NF, 99%, dms. incl., c.l., dlvd.	gal.	.41	.45
l.c.l., dlvd	gal.	.44	.48
tanks, dlvd	gal.	.31	.35
Methyl (see Metnanol).			
Methylamyl (see Carbinol, methyl-isobutyl).			
Nonyl (see Trimethylhexonal).			
Octyl, perfumer's grade, bots.	lb.	2.15	3.25
technical (see Octanol normal).			
Pantothenyl (see Panthenol).			
Phenylethyl, cns.	lb.	1.40	1.70
Polyvinyl, type A, fiber-pack, Niagara Falls	lb.	.65	.70
type B, fiber-pack, same basis	lb.	.60	.68
Propyl, normal, dms., c.l., dlvd.	lb.	.09½	—
works	lb.	.08	—
l.c.l., dlvd	lb.	.10	—
works	lb.	.08½	—
tanks, dlvd	lb.	.08	—
works	lb.	.06½	—
Salicyl (see Saligenin).			
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia.	lb.	.47	—
dms., c.l., Waverly, N. Y.	lb.	.40	—
l.c.l., same basis	lb.	.44	—
tanks, Niagara Falls, N. Y.	lb.	.36	—
Aldol, 95%, dms., works	lb.	.15	.16
denaturing grade, dms.	gal.	1.33	1.48
Aletris root, bgs.	lb.	1.50	1.60
Algin, bbls., fib. dms	lb.	.76	1.00
Alizarin (see Red, alizarin)			
Alkanet root, bgs	lb.	.35	.40
Allspice, Jamaica (see Pimento).			
Mexican, bgs	lb.	.19	.19½



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YOUR DEPENDABLE SOURCE OF SUPPLY FOR:

ETHYL ALCOHOL
- *Pure (USP)*
- *Denatured*
- *Proprietary Solvent*
- *Anhydrous (200 proof)*

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BUTYL ALCOHOL

BUTYL ACETATE

ETHYL ACETATE

ACETIC ACID

ACETALDEHYDE

AMYL ACETATE

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PUBLICKER
INDUSTRIES INC.
ONE OF THE WORLD'S LARGEST PRODUCERS OF ALCOHOL AND SOLVENTS
1429 WALNUT ST., PHILA. 2, PA.

Allyl bromide, cbys., 5,000 cbs., works lb. .99 - —
smaller lots, works lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd lb. .16½ - —
l.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .15 - —
Starch, solid, dms., works lb. .58 - —
solution, 40%, dms., works lb. .279 - .297
50%, dms., works lb. .446 - —
Aloe, Cape, cs lb. .21 - .32
Curacao, kgs lb. .35 - .36
Socotrine, kgs lb. .35 - .36
Aloin, USP, bbls., dms., kgs lb. 3.50 - —
Alphacellulose, bgs., c.l., works lb. .04 - .15
Alphanaphthol, bbls lb. .70 - —
Alphanaphthylamine, bbls lb. .41 - .42
Alphanaphthylthiourea, 93-98%, fib. dms., works, frt. alld lb. 2.08 - 2.40
Alphanitronaphthalene, bbls lb. .34 - —
Alphapicoline, ret. dms., c.l., works, frt. equald lb. .29½ - —
l.c.l., works, frt. equald lb. .30 - —
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd. f. lb. .17 - —
Alphatocopherol, bots kilo. 350.00 - —
Acetate, bots kilo. 350.00 - —
Althea root, NF, peeled, bls lb. .30 - .40
Alum, ammonia, gran., bbls., works, 100 lbs. 3.80 - —
lump, bbls., works 100 lbs. 4.05 - —
powd., bbls., works 100 lbs. 4.20 - —
USP, burnt, bbls. lb. .20 - .31
hydrous, bbls. lb. .07¾ - .08
Potash, gran., bbls., works 100 lbs. 4.05 - —
lump, bbls., works 100 lbs. 4.30 - —
powd., bbls., works 100 lbs. 4.45 - —
USP, hydrous, bbls. lb. .07¾ - .08
Potash-chrome, dms lb. .17 - —
Soda, bbls., c.l., works 100 lbs. 3.25 - —
l.c.l., dlvd 100 lbs. 4.25 - 5.00
Alumina, calcined, bgs., c.l., works lb. .03½ - .05
crystalline (see Aluminum oxide).
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works lb. .11 - —
20%, bbls., l.c.l., works lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works lb. .11 - .11¼
l.c.l., works lb. .11½ - .12
eryst., com'l, dms., c.l., works lb. .0650 - —
l.c.l., works lb. .0690 - —
NF, gran., dms., works lb. .27 - .28
solution, 32°, cbys., c.l., works lb. .03¼ - —
l.c.l., works lb. .04 - —
Fluoride, tech., anhyd., bbls., c.l., works lb. .10 - —
l.c.l., works lb. .11 - .13
Formate, basic solution, cbys., c.l. lb. .09½ - —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton 50.00 - 54.00
l.c.l., works ton 72.00 - 86.00
light, bgs., dlvd lb .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .21¼ - —
contract, works lb. .20¼ - —
9-9½% Al_2O_3, fib. dms., works lb. .18¼ - —
contract, works lb. .17¼ - —
dried, USP XII, fib. dms., works. lb. .79½ - —
contract, works lb. .76½ - —
powder, tech. (see Aluminum hydrate).
Laurate, precip., bbls lb. .38½ - —
Linoleate, solid, dms., frt. alld lb. .39¼ - —
Metal, 98-99%, ingots, 10,000 lbs. lb. .17 - —
pigs, 10,000 lbs lb. .16 - —
Naphthenate, liquid, 1.7%, frt. alld lb. .24½ - .25
Oleate, dms precip lb. .35¼ - —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour, classified, 8-240 mesh, dms., frt. alld lb. .14 - .15
kgs., ton, frt. alld lb. .12¼ - —
smaller lots, frt. alld. lb .13 - .15
230-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld lb. .31 - —
500 mesh, dms., frt allo lb. .35 - .37
kgs., frt. allo lb. .34 - —
600 mesh, dms., frt. allo. lb. .51 - .53
kgs. frt. allo lb .50 - —
optical, floated, kgs., dlvd lb. .56 - .56
unclassified, dms., frt. allo. lb. .16 - .17
kgs., frt. allo. lb .15 - —
high-purity, alpha or gamma, ultrafine, dms., works lb. 13.50 - —
jars, works lb. 15.00 - 17.00
Aluminum oxide flour prices ¾c. per lb. higher. W of Denver
Paste, lining, extra fine, dms lb. .58 - —
standard, dms lb .39¼ - —
Powder, lining, extra fine, dms lb. .96 - —
standard, dms lb. .64½ - —
rubber comp., dms lb. .48½ - —
unpolished, standard, dms lb. .44½ - —
varnish, standard, dms lb .49 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., dms., frt. allo. lb. .24 - —
Stearate, dibasic, ctns., c.l. lb .30 - —
l.c.l. lb .31 - —
monobasic, ctns., c.l. lb. .30 - —
l.c.l. lb .31 - —
tribasic, ctns., c.l. lb. .30 - —
l.c.l. lb .31 - —
Sulphate, com'l, bgs., c.l., works, equald 100 lbs. 1.50 - —
l.c.l., same basis 100 lbs. 1.90 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 2.75 - —
l.c.l., works 100 lbs. 3.15 - —
NF, gran., dms., works lb. .27 - .28
powd., dms., works lb. .32 - .33
Trihydrate, heavy (see Aluminum hydrate)
Ambergris, gray, bots oz. 8.50 - 12.00
Aminoazotoluene, bbls lb. 1.03 - —
Aminomethylpropanol, cns., dms., works lb. .85 - .89
Aminoethylethanolamine, dms., c.l., works lb. .42 - —
l.c.l., works lb. .42½ - —
tanks, works lb .40 - —
Aminophylline, USP, 100-lb. dms. lb. 5.35 - —
Aminopyrine, USP, bots., dms lb 6.00 - 6.15
Ammonia, anhydrous, fertilizer, tanks, works ton. 74.00 - 75.00
pure, cyls., extra, zone 1 lb. .17 - .17½
2 lb. .19 - .19½
3 lb. .21 - .21½
4 lb. .16 - .19½
refrigeration, tanks, works ton. 76.50 - 77.50
Aqua (29.4% NH_3), dms., c.l., works 100 lbs 3.10 - —
l.c.l., works 100 lbs 3.50 - —
tanks, works, anhyd. basis ton. 80.00 - 81.00
Ammoniac gum (see Gum, ammoniac)
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 6.55 - —
l.c.l., same basis 100 lbs 6.95 - —
white, gran., bgs., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs 6.25 - —
Ammoniacal liquor, tankcars, works, anhyd. basis ton. 75.00 - 80.00

Ammonium acetate, purified, dms lb. .39 - .40
reagent, jars lb. .61 - .63
Benzoate, USP, dms., kgs., 4,000 lbs., frt. allo lb. .33 - —
smaller lots, frt. allo lb. .31 - 1.06
Biborate, bbls., c.l., works ton. 202.00 - —
ton lots, works ton. 255.50 - —
less ton lots, works ton. 260.50 - —
Bicarbonate, dms., works, c.l. lb. .05½ - —
l.c.l., works, dms lb. .08 - —
Bichromate, bbls., works lb. .31 - .35
Bifluoride, dms., dlvd lb. .18 - .18½
Bromide, gran., NF, bbls lb. .36 - .37
dms. lb. .37 - .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms. lb. .18½ - .22
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms lb. .18 - .19
Citrate, dibasic, bbls lb. .73 - —
dms. lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms lb. 2.40 - —
Iodide, NF, jars lb. 3.79 - 3.91
Linoleate, plastic, 80%, dms., works lb. .40¼ - —
kgs., works lb. .42½ - —
25%, dms., frt. allo lb. .21½ - —
tech., bbls., works lb. .37 - —
dms., works lb. .39 - —
Molybdate, chemical grade, bbls., kgs. lb. .85 - —
metal grade, kgs lb. .90 - —
tech. grade, bbls., kgs lb. .80 - —
Nitrate, fertilizer grade, Canadian, 32.5% N, bgs., c.l., shipping point ton. 57.50 - —
dom., bgs., western works ton. 58.00 - —
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va. ton. 46.00 - —
Oleate, dms., precip lb. .23¼ - —

Ammonium oxalate, fine gran., dms. lb. .25 - .31
Pentaborate, gran., bbls., c.l., works ton. 212.00 - —
ton lots, works ton. 255.50 - —
less ton lots, works ton. 270.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs., works lb. .50 - .73
Persulphate, kgs lb. .25½ - .28¼
Phosphate, com'l, bgs., c.l., works lb. .03 - —
l.c.l., works lb. .03½ - —
dibasic, NF V, bbls., dms lb. .40 - —
tech., bgs., c.l., works lb. .03 - —
l.c.l., works lb. .03½ - —
Salicylate, NF, dms., kgs lb 1.25 - 1.28
Silicofluoride, dms., works lb. .12 - .13
Sulphamate, bbls., dms., works lb. .18 - .20
Sulphate, coke-oven, bulk, producing ovens ton. 45.00 - 50.00
converters', bulk, works ton. 45.00 - 50.50
Sulphide, liquid, 40-45% basis, 100%, dms., c.l., works. lb. .10¼ - —
l.c.l., works lb. .15½ - —
tanks, dlvd. or frt. allo lb. .09 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate tech., bbls., c.l., works lb. .13 - —
l.c.l., works lb. .16 - .19
Thioglycollate, commercial, 100% basis, cbys. lb. 1.40 - 1.95
highly purified, same basis lb. 1.70 - 2.35
Thiosulphate, cryst., jars, works lb. .32 - —
Amphetamine citrate, dextro, bots. lb. 36.00 - —
dextro-laevo, dms lb. 6.50 - —

Amphetamine hydrochloride, dextro, dibasic, bots lb. 36.00 - —
monobasic, bots lb. 34.00 - —
dextro-laevo, dms lb. 6.50 - —
Phosphate, dextro, dibasic, bots. lb. 36.00 - —
dextro-laevo, dibasic, dms lb. 6.50 - —
monobasic, dms lb. 6.00 - —
Sulphate, dextro, dms lb. 36.00 - —
dextro-laevo, dms lb. 6.50 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd lb. .16½ - .19¼
l.c.l., dlvd lb. .17½ - .20¼
tanks, dlvd lb. .15 - .18
ex pentane, dms., c.l., frt. allo E. of Miss. R lb. .18 - —
l.c.l., same basis lb .17 - —
tanks, same basis lb 15 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb 90 - 1.00
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .76 - .81
Anethol, NF, cns., dms lb. 1.00 - 1.10
Angelica root, dom., bls lb. .65 - .70
imported, bls lb. .70 - .75
Angostura bark, bls lb. .44 - .49
Aniline oil, dms., c.l., works, frt. allo lb. .15 - —
l.c.l., works, frt. allo lb. .16 - —
tanks, works, frt. allo lb. .14 - —
Salt, dms., works lb. .26 - —
Anise, Argentine, bgs lb No stocks.
Chinese, star lb. .15¾ - .16
Czech., bgs., afloat lb. .14½ - .15
Cyprus, bgs lb. .20 - .20½
Mexican, bgs lb. .15 - .15½
Syrian, bgs lb. .15 Nom.
Turkish, bgs lb. .15 - .15½
Anisic aldehyde, bots., dms lb. 2.10 - 2.35

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Annatto Powder—Black Indian Hemp Root

Annatto powder, dms lb .24 - .25
Seed, bgs lb. .18 - .20
Anthracene, 80-85%, bbls., works lb .60 - .86
90%, bbls., works lb. .81 1.00
Anthraquinone, 99.5%, bbls lb .85 —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys lb .29 .30
Metal, bulk, c.l., mines lb. .24½- —
cases lb. .25 - —
Oxide, bgs., c.l., frt. alld lb. .21¾- —
l.c.l., frt. alld lb. .22¾- —
Salt, 65%, bgs., c.l., dlvd. E. of Miss lb. No stocks.
Sulphide, 62-64%, bgs., frt. alld., dlvd lb. .20 - .23
Antimony potassium tartrate (see Tartar emetic).
Antipyrene, USP, dms lb. 2.35 2.45
Apomorphine, USP, bots. oz. 23.20 -23.70
Archil extract, bbls lb No stocks.
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, bots. oz. 5.00 5.75
Arginine hydrochloride, laevo, kilo. 70.00 -80.00
Argols, min. 50%, bgs., shipment ports, per 100 kilos (100% purity) 15.00 -16.25
Arnica, flowers, bls lb. .45 - .75
root, bls. lb. 1.45 —
Arrowroot, powd., bgs lb. .12 - .15
Arsenic, metal, lump, bbls., prompt shipt lb. .80 .90
Sulphide, yellow, bbls lb No stocks.
Trioxide, USP, dms lb. .40 - .42
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l., dlvd lb. .06¾- .06¾
Asafetida, cs lb. .32 - .35
powd., bbls., dms lb. .50 .53

Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton. 940.00 -960.00
No. 2, c.l. (20 tons), mines ton. 485.00 -492.00
Run-of-mine, c.l. (20 tons), mines ton. 400.00 - —
fiber, 3K, c.l. (20 tons), mines ton. 313.00 - —
3R, c.l. (20 tons), mines ton. 267.00 - —
3T, c.l. (20 tons), mines ton. 249.50 - —
3Z, c.l. (20 tons), mines ton. 231.00 - —
4K, c.l. (20 tons), mines ton. 124.50 - —
4M, c.l. (20 tons), mines ton. 124.00 - —
4T, c.l. (20 tons), mines ton. 111.50 -141.00
4Z, c.l. (20 tons), mines ton. 111.50 - —
5D, c.l. (20 tons), mines ton. 88.00 - —
5K, c.l. (20 tons), mines ton. 88.00 - —
5M, c.l. (20 tons), mines ton. 84.00 - —
5R, c.l. (20 tons), mines ton. 78.50 -79.00
6D, c.l. (30 tons), mines ton. 58.00 -59.00
7D, c.l. 30 tons), mines ton. 52.00 -52.50
7F, c.l. (30 tons), mines ton. 49.00 -49.50
7H, c.l. (30 tons), mines ton. 41.50 -42.00
7K, c.l. (30 tons), mines ton. 35.00 -35.50
7M, c.l. (30 tons), mines ton. 30.50 -31.00
7R, c.l. (30 tons), mines ton. 29.50 -30.00
7T, c.l. (30 tons), mines ton. 28.00 -28.50
7RF, c.l. (30 tons), mines ton. 30.50 -31.00
7TF, c.l. (30 tons), mines ton. 30.50 -31.00
8S, c.l. (30 tons), mines ton. 19.00 -27.00

Prices quoted above are in U. S. funds. Add $4 per ton for l.c.l. lots.

Asphaltum, cut-back, tanks, tank wagon, refinery gal. .09 - —
Emulsion, tanks, tank wagon, refinery gal. .09¼- .10
Gilsonite, brilliant black, selects 270°-295° F. fusing pt., bgs., f.o.b. Colo. mines ton. 36.50 - —
Asphaltum, gilsonite, brilliant, black, seconds, 300°-390° F. fusing point, not uniform, bgs., Colo. mines ton. 31.00 - —
jet, bgs., ton lots, gross weight, Colo. mines ton. 36.50 - —
Manjak, No. 10, crude, dms., works lb. .06½- —
process form, bgs., works lb. .05¾- .12
Steam-rfd., less than 80 penetration,, tanks, tankwagon, refinery ton. 22.00 - —
80-300 penetration, tanks, tankwagon, refinery ton. 21.00 - —
Atropine, USP, bots oz. 10.50 -11.50
Sulphate, USP, bots oz. 6.75 - 7.25

B

Bacitracin, wholesalers, unlabeled, topical, 2,000 units vial. .42 - —
10,000 units vial. .80 - —
50,000 units vial. 2.88 - —
Balm of Gilead buds, dried, bgs lb 1.40 1.50
Barbasco root (see Cube root).
Barberry, root bark, bgs lb. .60 - .65
tree bark, bgs lb. .53 - .55
Barbital, USP, dms. lb 4.50 - —
Sodium, USP, dms. lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works ton. 72.50 -80.00
smaller lots, works ton. 82.50 -90.00
Chlorate, kgs., works lb. .25½- .31
Chloride, NF, cryst., dms lb. .17 - .18
tech., bgs., c.l., works, frt. equald. ton. 90.00 - —
l.c.l., works ton. 100.00 - —
Chromate, bgs., frt. equald lb. .31½- .32
Dioxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .12 - —
Hydrate, crystals, bgs. lb. .09 - .09¼
Barium hydroxide, anhyd., bbls., works lb. .19 - —
Iodide, bots. lb. 5.12 —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .11½- —
l.c.l., works lb. .13 - —
Oxide, grd., dms., c.l., works lb. .11 - —
l.c.l., works lb. .11½ —
Peroxide (see Dioxide).
Stearate, ctns., c.l lb. .34 —
smaller lots lb. .35 - .36
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls lb .12½- .13
Sulphide, dms., c.l., works ton. 55.00 - —
l.c.l., works ton. 70.00 - —
Barium-potassium chromate, dms., c.l., frt. alld. lb. .20 - —
l.c.l., works lb. .21 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines ton. 9.40 -12.50
Barytes, water-grd., paper bgs., c.l. St. Louis ton. 35.05 —
l.c.l., same basis ton. 36.85 - —
ex whse., N. Y. ton. 49.65 - —
Southern off-color, bgs., mines ton. 19.00 - —
95.75%, bgs., mines ton. 20.00 - —
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .65 - 1.10
Root, bls lb. .50 - .52
Bauxite, bulk, mines ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works ton. 11.00 —
Benzaldehyde, NF, dms lb. .68 —
tech., cbys., dms lb. .45 - —
Benzal chloride, cbys., works lb .19 .25
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane).
12% gamma, tech., bgs., dms., c.l., works lb. .18 - —
l.c.l., works lb. .20¼- —
6% gamma, 50% dust, dry, distributors, dms., c.l., dlvd lb. .12 - —
l.c.l., dlvd lb. .13 - —
wet, distributors, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
Benzidine base, bbls lb. 1.02 —
Benzocaine, dms lb. 3.25 - 3.35
Benzol (benzene), pure, nitration, tanks, works, Lackawanna, N. Y., Sparrows Point, Md gal. .23 - —
Bethlehem, Pa., Birmingham, Ala., Chicago district, Cleveland district, Dangerfield, Tex., Johnstown, Pa., Minequa, Colo., Philadelphia, Pa.; Pittsburgh district, St. Louis, Mo.; Syracuse, N. Y., Terre Haute, Ind., Woodward, Ala., Wyandotte, Mich., Youngstown, Ohio gal. .22 - —
Benzophenone, dms lb. 1.15 1.70
Benzothiazyl disulfide, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots lb. .35 - —
less ton lots, same basis lb. .37 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. eq lb. .20½ .21
l.c.l., same basis lb. .21½- .22
Peroxide, pure, fib. ctns., works, lb. .90 - 1.05
Benzyl acetate, t.f.c., dms. lb. .60 1.00
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .80 - —
Chloride, tech., cbys., c.l., works, frt. equald lb. .19 .19½
l.c.l., same basis lb. .20 .20½
high grade, 2c. higher.
Cinnamate, cns lb. 3.00 4.00
Formate, cns lb. 1.60 - 3.50
Propionate, bots lb. 1.34 - 2.30
Salicylate, bots. lb. 1.55 2.25
Benzylidinacetone, bots. lb. 1.85 - 2.70
Benzylisoeugenol, bots lb. 8.90 9.00
Berberine, bisulphate, cns lb. 45.75 -48.00
Hydrochloride, bots. lb. 45.75 -48.00
Sulphate, cns. lb. 45.75 -48.00
Berberis root, bls lb. .35 .40
Betagammapicoline, dms., c.l., works. lb. .21 - .21¼
l.c.l., works lb. .21½- .22
Betamethylnaphthalene, m.p., 32°C., dms., works lb. 90 —
Betanaphthol, resublimed, dms., works. lb. 75 - —
tech., bbls., c.l., works lb. 30 - —
l.c.l., works lb. 32 - —
Benzoate, fib. dms., works lb. 1.70 - —
Salicylate, dms lb. 5.00 - —
Betanaphthylamine, tech., bbls., works lb. 90 - —
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.25 - —
smaller lots lb. 1.60 - —
Betapicolin, 90%-95%, dms., c.l., works lb. 1.35 - —
98%, dms., c.l., works lb. 1.85 - —
Beth root, bls lb .45 .50
Biotin, cryst. gram. 10.00 - —
Bismuth chloride, jars lb. 3.97 - —
Citrate, USP VIII, jars lb. 3.29 - —
Hydroxide, dms lb. 4.20 - —
Metal, bxs., ton lots lb. 2.00 - —
Nitrate, cryst., dms lb. 1.87 - —
Oxychloride, dms. lb. 3.97 - —
Oxide, anhydrous, dms lb. 4.02 - —
Phenolsulphonate, fib. dms lb. 4.70 - —
Subcarbonate, USP, dms lb. 2.80 - —
Subgallate, NF, fib. dms lb. 2.75 - —
Subiodide, fib. dms lb. 4.92 - —
Subnitrate, NF, dms lb. 2.30 - —
Subsalicylate, USP, dms lb. 3.20 - —
Bismuth-ammonium citrate, USP, powd., dms lb. 3.82 - —
Black, acetylene, bgs., c.l., works lb. .13½- —
cs., l.c.l. shipt. point lb. .17 .19
Bone, bgs., bbls., l.c.l., dlvd lb. .14¾- .22½

Carload price ½c. per lb. less. Deliveries to the Pacific Coast, ex dock or whse., 1½c. per lb. higher.

Carbon, channel, beads, bulk, c.l., works lb. .0650- —
bgs., c.l., works lb. .0690- —
l.c.l., dlvd. or whse lb. .117 .1175
uncompressed, regular, bgs., c.l., works lb. .0832- —
bgs., ctns., l.c.l., dlvd. or whse lb. .13¾- —
furnace, fast extruding, bgs., c.l., works lb. .05¼- —
ctns., l.c.l., whse lb. .09½- —
high modulus, bgs., c.l., works. lb. .05 - —
ctns., l.c.l., whse lb. .09 - —
semi-reinforcing bgs., c.l., works lb. .03½- —
ctns., l.c.l., whse lb. .07½- —
very fine, bgs., c.l., works lb. .0740- —
l.c.l., dlvd., or whse lb. .12 - —
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works lb. .10¾- —
l.c.l., works lb. .11 - —
Lamp, bgs., c.l., works lb. .07 .30
Mineral, bgs., works lb. .0160- .0675
Black ash (see Barium sulphide)
Blackberry root, bls lb. .10 - .12
bark of root, bls lb. .30 .32
Black dyes (see Dyes).
Black haw, root bark, bls lb. .70 - .80
Tree bark, bls lb. .28 - .30
Black Indian hemp root, bls lb. .45 - .50

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Wirz Caulk-Tip Tube—with round or beveled openings—maximum 5/16".
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Collapsible Metal Tubes • Lacquer Linings • Wax Linings • Westite Closures • Soft Metal Tubing • Household Can Spouts • Applicator Pipes • Compression—Injection Molding

Blanc fixe, dry, by-product, bgs., c.l., works ton 80.00 —
l.c.l., works ton 90.00 —
direct process, bgs., c.l., works ton 85.00 —
l.c.l., works ton 90.00 —
N Y whse ton 106.00 —
bbls., c.l., works ton 90.00 —
l.c.l., works ton 95.00 —
N. Y whse. ton 113.00 —
pulp, 66⅔% bbls., c.l., works, ton 67.00 —
l.c.l., same basis ton 73.00 —
Bleaching powder dms., c.l., works, 100 lbs. 4.50 —
l.c.l., works 100 lbs 5.00 —
Blood, dried, 16-16½% ammo., bgs., unit-ton 7.75 - —
high-grade, unground, 16-17% ammon., bulk, Chicago, unit-ton 7.50 - —
soluble, bgs., ex lb .16 - .17½
l.c.l. lb .17½ .22
Bloodroot, bls. lb .35 - .40
Blue, alkali, dry, bbls., divd. N. of Tenn. and N.C., E of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb 1.90 - —
Toner bbls., litho flushed, same basis lb 1.05 —
Celestine, bbls., same basis lb .15 .16
Chinese, bbls., same basis lb .37 .42
Cobalt genuine, bbls same basis lb 4.90 —
imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb 3.75 3.85
80%, bbls., same basis lb 3.00 3.40
Iron (see Blue, Chinese, Milori, Potash, Prussian, and Soda).
Methyl violet toner, bbls., same basis lb 4.20 —
Milori, bbls., same basis lb .37 .42
Peacock, fugitive, 100% color strength, same basis lb 60 79
Permanent toner, green shade, molybdic, bbls., same basis lb 3.75 —
tungstic lb 4.00 —
Potash, CP bbls same basis lb 31 —
Prussian, bbls., same basis lb. .37 .42
soluble, bbls., same basis lb. .37 .42
Soda, CP bronze, bbls., same basis lb 39 —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb .23 .26½
jobbing type dry bbls., same basis lb. 14 —
regular types, dry or pulp, bbls., same basis lb 19 .29
Victoria toner, molybdic, bbls lb 3.75 —
Tungstic, bbls lb 3.75 —
Violet toner, molybdic, bbls., same basis lb 1.24 —
Tungstic, kgs., same basis lb 2.60 2.70
Blue dry colors, divd. prices ½c. nigher Ala Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago
Blue dyes are listed under Dyes.
Blueflag, root, bls. lb 45 50
Bluestone (see Copper sulphate)
Blue vitriol (see Copper sulphate)
Boldo leaves, bls lb .09 .12
Bone, raw, bulk, Chicago ton 75.00 —
junk, bulk, same basis ton 50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works ton 62.50 - —
Chicago, works ton 62.50 - —
steamed, feeding grade, 1% ammon., 60% phos., E. works ton 60.00 - —
Chicago, works ton 62.50 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton 62.50 - —
Chicago, works ton 62.50 - —
Phosphate, defluorinated (see Dicalcium phosphate precipitated (see Calcium phosphate tribasic precip)
Boneset leaves, bls lb .16 - .18
Borage flowers, bls lb .40 .45
Borax, tech, anhydrous, bgs., c.l., works ton 70.50 —
ton lots, ex whse N. Y or Chi ton 115.25 - —
less ton lots, same basis, ton 120.25 - —
bbls., c.l., works ton 90.50 - —
ton lots, ex whse, N. Y. or Chi ton 135.25 —
less ton lots, same basis, ton 140.25 - —
bulk, c.l., works ton 64.00 - —
crystals, 99½%, bgs., c.l., works ton 61.25 —
ton lots, ex whse, N. Y. or Chi ton 106.00 - —
less ton lots, same basis, ton 111.00 - —
bbls., c.l., works ton 81.25 - —
ton lots, ex whse, N. Y. or Chi ton 126.00 - —
less ton lots, same basis, ton 131.00 - —
bulk, c.l., works ton 57.25 - —
granular, 99½%, bgs., c.l., works ton 35.25 - —
ton lots, ex whse, N. Y. or Chi ton 80.00 —
less ton lots same basis, ton 85.00 —
bbls., c.l., works ton 55.25 - —
ton lots, ex whse, N. Y or Chi ton 100.00 - —
less ton lots, same basis, ton 105.00 - —
bulk, c.l., works ton 31.25 - —
powdered, 99½%, bgs., c.l., works ton 40.25 - —
ton lots, ex whse, N. Y or Chi ton 85.00 - —
less ton lots same basis, ton 90.00 —
bbls., c.l., works ton 60.25 - —
ton lots, ex whse, N. Y. or Chi ton 105.00 —
less ton lots same basis, ton 110.00 —
bulk, c.l. works ton 36.25 —
Borax packed in kgs. is $40 per ton higher than borax packed in paper bgs. USP borax $15 per ton higher than tech.
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb 15 21
l.c.l., same basis lb 16 .23
Borneol, cns. lb. 2.75 —
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purified cs. c.l., frt. alld. E. of Rockies lb .21 —
1,000 lbs., same basis lb .23 —
single pkgs., same basis lb .28 —
dms., lead-lined, divd lb .21 —
Bromoform, USP, bots lb. 1.50 1.70
cbys lb. 1.42 —
Bromstyrol, bots lb. 4.85 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works lb .50 .60
moulding, cans, dms., works lb .80 1.00
printing ink, cans, dms., works lb .95 1.10
radiator, cans, dms., works lb .60 .65
Broomtop, bls. lb .25 .28
Brown, iron, synth, bgs., l.c.l., works lb .12½ —
Oxide, metallic, bgs., works lb .03 .03¼
Brown, sap, crystals, works lb. .12 - —
powdered lb 13 —
Sienna, burnt, paper bags., c.l., works lb .03¾ .14¾
l.c.l., works lb .04 .15
raw, paper bgs., c.l., works lb .04 .12½
l.c.l., works lb .04¼ .12¾
Umber, burnt, American, c.l., bbls., works lb .04¾ .05¾
l.c.l., bgs., works lb .05 .06¾
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va N Y lb .05¾ .07¾
l.c.l., works lb. .06 .08
raw, American, bgs., same basis, lb .03¾ .05
Turkey type bgs same basis lb .06 .06¼
Vandyke, bbls., works lb. .11 - —
Brucine, cns., 100 ozs oz. .35 - —
Sulphate, NF, cns., 100 ozs oz. .30 - —
Bryonia root, bls lb .29 .35
Buchu leaves, bls lb. .60 .65
Buckthorn bark, bls lb .14 .18
cut and sifted, bls lb .23 .25
Berries, bgs lb .80 .90
Burdock, root, bls lb .20 .26
Butadiene, cyls., refinery lb. .19 - —
tanks, same basis lb. .08½ - .11¼
Butane, indust., tanks, group 3 gal. .03 - —
Butternut bark, bls lb. .22 - .25
Butyl acetate, fermentation, normal, Ill., Ind., prod., dms., c.l., works, frt. alld lb .13½ —
l.c.l., same basis lb. .14½ —
tanks, same basis lb .12 —
tankwagons, same basis lb .12½ —
other production, dms., c.l., same basis lb .13½ —
l.c.l., same basis lb. .14½ —
tanks, same basis lb. .12 —
Butyl acetate, synthetic, normal, dms., c.l., same basis lb. .13½ - —
l.c.l., same basis lb. .14½ - —
tanks, same basis lb. .12 - —
secondary, dms., c.l., same basis lb. .11 - —
l.c.l., same basis lb. .11½ - —
tanks, same basis lb. .09½ - —
Alcohol (see Alcohol butyl)
Aldehyde, dms., c.l., works lb. 17½ - —
l.c.l., works lb. .18½ - —
tanks, works lb 16 —
Ether (see Ether, butyl)
Lactate, dms., c.l. frt. alld. E. of Rockies lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .41 - —
Laurate, dms., works lb .42 —
Methacrylate, normal, dms., less than truckload, works lb. .60 - —
Oleate, reid., dms., l.c.l., works lb. .52 —
Phenylacetate, dms lb 2.00 2.20
Phthalate (see Dibutyl phthalate).
Stearate dms. c.l. frt. alld. E. of Rockies lb. .27 - —
l.c.l., same basis lb. .28½ - —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium bromide, reagent, jars lb. 2.64 - 2.65
Iodide, jars lb. 5.00 - 5.22
Cadmium lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd lb 2.00 - —
patent shapes, cs., dlvd lb 2.15 - —
Selenide (see Red).
Sulphide (see Yellow).

Blanc Fixe—Calcium Carbonate

Caffeine, natural, USP, cryst., dms., 100 lbs or more lb. 4.75 - —
anhydrous, dms., 100 lbs. or more lb 5.00 - —
Synthetic, USP, cryst., dms., 100 lbs. or more lb 3.80 - —
anhydrous, dms. 100 lbs. or more lb 4.00 —
Citrated, USP, dms., 100 lbs or more lb 2.60 - —
Hydrobromide, bots lb 6.70 Nom.
Calabar beans, bgs., futures lb 85 .96
Calamine, USP, dms lb .27 .39
Calamus root, dom., bgs lb .27 .30
imported, bleached, bls lb .70 Nom.
peeled, bls lb .30 .31
Calciferol, cryst., vials, 250 grams or more, works gram. 1.90 - —
25 to 249 grams, works gram. 2.10 - —
1 to 24 grams, works gram. 2.30 - —
in edible oil, dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit. .04¾ - —
1,000 to 10,000 s.u. units, works unit. .05¼ - —
less than 1,000 s.u. units, works unit. .05¾ - —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 4.00
Arsenate dealers, dms., c.l., whse works, frt. alld. on 96 lbs. or over lb. .09½ —
l.c.l., same basis lb. .10½ - .11¼
Bromide, NF, jars lb 75 .85
Carbide, standard generator size, dms., c.l., dlvd ton 121.00 —
Carbonate (see Chalk and Whiting).

Mutual's

AMMONIUM BICHROMATE

OTHER NAMES: Ammonium Dichromate

FORMULA: $(NH_4)_2Cr_2O_7$

MOLECULAR WEIGHT: 252.10

DESCRIPTION: Non-hygroscopic, orange-red prismatic crystals.

- Bulk density averages 82 lb. per cu. ft.
- $(NH_4)_2Cr_2O_7$ 99.7 % min.
- Chloride as Cl 0.01% max.
- Sulfate as SO_4 0.10% max.
- Fixed alkali as Sulfate 0.20% max.
- Insoluble in Water 0.01% max.

USES: Photographic reproduction techniques, such as photoengraving. Pyrotechnics. Catalyst manufacture. Porcelain colors.

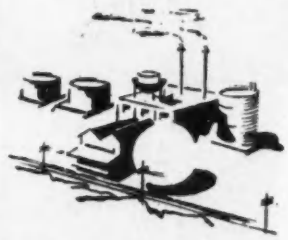
SHIPPING CONTAINERS: Fibre Drums—100 lb. net. Barrels—about 350 lb.

OTHER MUTUAL PRODUCTS

Sodium Bichromate — Sodium Chromate
Potassium Bichromate — Potassium Chromate
Chromic Acid

PHOTO-ENGRAVING

PYROTECHNICS


CHEMISTRY

PORCELAIN COLORS

MUTUAL CHEMICAL CO. OF AMERICA — SINCE 1845

MUTUAL CHEMICAL COMPANY OF AMERICA

270 MADISON AVENUE • NEW YORK 16, N. Y.

Calcium Chloride—Charcoal

Calcium chloride, cryst., purified, bbls., jars	lb.	.28	- .30
flake, 77-80%, paper bgs., c.l., works, frt. equald	ton	22.00	—
l.c.l., same basis	ton	37.00	-67.00
liquor, works, basis 40%, tank-cars	ton	9.00	—
pellets, bgs., c.l. works	ton	29.00	—
solid, 73-75%, dms., c.l., works, same basis	ton	20.00	—
l.c.l. works, same basis	ton	30.00	-59.00
USP, gran, bbls	lb	.30	—
Chromate, bgs., frt. equald	lb.	29¼	.30
Cyanide, dms., dlvd. E. of Rockies	lb	.30	50
Gluconate, AA, bbls., dms	lb.	.65	- .72
USP, bbls., dms	lb.	.58	65
Glycerophosphate, NF, fib. dms	lb.	1.80	- 1.95
Hydride, dms., works	lb	.90	—
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies	dm.	24.00	-28.50
cns., cased (45 lbs.) same basis.	cs.	19.75	-21.50
Hypophosphite, 50-lb. lots, dms.	lb.	.80	.83
Iodide, jars	lb.	4.10	4.12
Lactate, USP, dms., 10,000 lbs. or more, works	lb.	.37	- —
smaller quantities, works	lb.	.38	- .44
Mandelate USP, dms., works	lb	2.10	2.25
Naphthenate liq. 4% Ca., dms., frt. alld	lb	23¾	—
Nitrate, tech., works	lb	07	09
Pantothenate, dextro, jars, 100 grams or more, frt. adjusted	gram	.07½	—
Phenolsulphonate, dms	lb	64	.65
Phosphate dibasic, USP bgs., c.l.,	100 lbs	6.75	—
l.c.l.	100 lbs	7.10	7.45
Calcium phosphate, feed grade, bgs., 10 tons, works	ton.	105.00	- —
one ton or over, works	ton.	115.00	- —
less than one ton, works	ton.	125.00	- —
monobasic, bgs., 10,000 lbs., works, frt. equald	lb.	.05¾	- —
smaller lots, same basis	lb.	.06¼	—
tribasic, bgs., c.l., works 100 lbs.		6.50	- —
l.c.l., works 100 lbs.		6.95	7.30
Phytate, bgs., works	lb.	.28	- —
Resinate, precip., dms., frt. alld., works	lb.	.24	- —
Silicate, hydrated, bgs., c.l., works	lb.	.05½	- —
l.c.l., works	lb	06	- —
Stearate, precip., cns., c.l., works.	lb.	.32	- —
l.c.l., works	lb	.33	- .34
Sulphate (see Gypsum).			
Sulphide, 76%, bgs., c.l., works	ton.	45.00	- —
70%, bgs., c.l., works	ton.	50.00	- —
luminous, tins, works	lb	1.25	- —
Calcium-strontium sulphide, phosphorescent, dms., works	lb.	1.06	1.50
fine particle size, dms., works	lb.	1.50	1.75
Calendula flowers, bls	lb.	.45	- .60
Calomel, USP, fine powd., dms.	lb.	1.97	- 1.98
reg. powd., dms	lb.	1.82	- —
Camphene, chlorinated, 67-69% (see Toxaphene).			
Camphor, monobromated, NF, dms.,	kgs.	lb. 2.75	- 2.85
natural, powd., 100-lb. lots	lb.	.45	- —
slabs, cs	lb.	.56	- —
tablets, cs	lb.	.74	- —
Camphor, synthetic, tech., bbls., 2,000 lbs. or more, whse	lb.	.42	- —
10 bbls. (1,500 lbs.)	lb.	.44½	- —
smaller lots	lb.	.45	- .55
USP, gran., powd., bbls., 2,000-lb. lots	lb.	.45	- —
1,000-lb. lots	lb.	.46	- —
smaller lots	lb.	.47	- —
USP, tablets, tins, 2,000-lb. lots	lb.	.73	- —
1,000-lb. lots	lb.	.74	- —
smaller lots	lb.	.75	- —
Canada balsam (see Fir balsam).			
Canella alba bark, bls	lb.	.25	.30
Cantharides, Chinese, cs	lb.	1.10	- 1.30
powd., bxs.	lb.	1.25	- 1.50
Russian, bgs	lb.	4.50	5.00
powd., bxs.	lb.	5.75	6.00
Capsicum (see Pepper, red).			
Oleoresin, NF VIII, cns	lb.	5.25	- 6.50
Caramel colorings, NF bbls	gal.	1.02	1.20
Caraway seed, Dutch, bgs	lb.	.14	- .14½
Carbazole, 97% steel dms., ton lots, works	lb.	1.55	- —
bbls., same basis	lb.	1.65	- 1.85
Carbinol, butyl, secondary, dms., l.c.l., works	lb.	.70	- —
Methylisobutyl, dms., c.l., frt. alld. E	lb.	.13	- —
l.c.l., same basis	lb.	.13½	- —
tanks, same basis	lb.	.11½	- —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points	lb.	.06¼	- —
l.c.l., same basis	lb.	.07¼	- —
5-gal. dms., c.l., same basis	lb.	.09½	- —
l.c.l., same basis	lb.	.08¾	- —
tankcars, same basis	lb.	.0440	- —
Dioxide, cyls	lb.	.06	.08
Tetrachloride, CP, dms., works	lb.	.10½	- .10¾
tech., dms., E. of Rockies, c.l., frt. alld	lb.	.08	—
l.c.l., same basis	lb.	.08½	—
Carbon tetrachloride, tech., dms., W. of Rockies, c.l., f.o.b. stock points	lb.	.08½	- —
l.c.l., frt. alld.	lb.	.09	- —
NF, cbys	lb.	.17	- .19
Carboxymethylcellulose-sodium—See CMC.			
Carbromal, NF, dms., 100-lb. lots, works	lb.	4.00	- 4.25
smaller lots, works	lb.	4.10	- 4.75
Cardamom fruit, bleached, bold, cs.	lb.	3.30	- 3.45
medium, cs.	lb.	3.00	- 3.40
Coorges, cs.	lb.	2.20	- 2.25
decorticated, Alleppey, cs.	lb.	3.40	- 3.45
Ceylon, cs.	lb.	3.30	- 3.35
Guatemala, cs	lb.	3.40	- 3.45
Indian, cs.	lb.	No prices.	
green, Alleppey, bgs., afloat	lb.	2.15	- 2.20
Ceylon, bgs.	lb.	2.15	- 2.20
seed (See Cardamom fruit, decorticated)			
Carmine, No. 40, NF, bulk, 100 lbs. or more, dlvd	lb.	5.50	- —
smaller lots, dlvd	lb.	5.65	- 6.15
Carotene, crystals, research grade, ampuls, pure alpha or beta.	10 mg.	5.00	- —
90% beta-10% alpha, ampuls	100 mg.	2.00	- —
bulk, grain quantities	gm.	5.00	- —
technical, 1,350,000 A units per gram	gm.	.67½	- —
tins, works	gm.	.56	- —
dry powder, 3,330 A units per gram	lb.	70	- —
emulsion (in milk), 500,000 A units per 16-oz. cn	cn.	.85	- —
in vegetable oil, 250,000 A units, per gram	lb.	37.50	- —
50,000 A units per gram	lb.	7.87	- —
26,000 A units per gram, tins, works	milli. units.	.22	- —
dms., works	milli. units.	.20	- —
3,330 A units per gram	lb.	.85	- —
microcrystalline, in oil, 400,000 A units per gram, tins, works	milli. units.	.44	- —
Carvol, bots	lb.	10.00	-16.00
Cascara sagrada bark, bulk	lb.	.27	- .30
Case-hardening mixture, 30% gran., dms., l.c.l., works	lb.	.10½	—
Casein, dom., acid-precip., standard, bgs., 10,000 lbs. or more, ship't point	lb.	.23½	- .24
premium, bgs., 10,000 lbs. or more, ship't point	lb.	.24	- .24½
rennet-precip., bgs., 10,000 lbs. or more, ex dock	lb.	.20¾	- .22½
imp., acid-precip., ground, 100 bgs. or more, ex dock	lb.	.20¾	- .21
Cashew nut liq., treated, dms., c.l., f.o.b. Newark, N. J.	lb.	.21	—
ton lots, same basis	lb.	.22¼	- —
dm. lo's, same basis	lb.	.24¼	- —
Cassia bark, Batavia, tongstick, bls.,	lb.	.25	- .26
broken, bls	lb.	.24	- .25
short stick, bls	lb	.23	.24
China, Canton, Kwangsi, rolls, select, cs.	lb.	.12	- .12½
broken, bls	lb.	.11	- .11½
Honan, rolls, scraped, bls.	lb.	.15½	- .16
broken, bls.	lb.	.14½	- .15
unscraped, bls	lb.	.14	- .14½
broken, bls	lb.	.13½	- .14
Yunnan, rolls, scraped, bls	lb.	.15½	- .16
broken, bls.	lb.	.14½	- .15
unscraped, bls	lb.	.14	- .14½
broken, bls	lb.	.13½	- .14
Saigon, broken, bls	lb.	.26	- .27
medium, bls.	lb.	.36	- .37
thin, bls	lb.	.41½	- .42
Buds, China, bgs	lb.	.55	- .55½
Cassia fistula, bskts	lb.	.30	- .35
Castor beans, bgs., Brazilian ports	long ton.	125.00	-130.00
Oil (see Oil, castor).			
Pomace, bgs., c.l., works	ton.	30.50	- —
Castoreum, natural, cns	lb.	10.00	-40.00
artificial, cns.	lb.	9.00	- 9.25
Catechol, CP, cryst, fib. dms., works	lb.	2.00	- —
resublimed, dms., works	lb.	4.00	- —
Catnip, bls	lb.	.70	- .75
Celery seed, French, bgs	lb.	.29	- .30
Indian, bgs.	lb.	.24½	- .25
afloat, bgs.	lb.	.24½	- .25
Celluloid scrap (see Pyroxylin scrap).			
Cellulose acetate, flake, ctns., works, frt. alld on 100 lbs. or more	lb.	.33	- .36
molding, composition, plain colors, translucent, metallic pearls, special black, dms., c.l., frt. alld	lb.	.40	- —
l.c.l., same basis	lb.	.45	.51
regular, black, dms., l.c.l., same basis	lb.	.31	- .39
variegations, dms., l.c.l., same basis	lb.	.50	.59
molding and extrusion transparents, dms., c.l., same basis	lb.	.47	- —
l.c.l., same basis	lb.	.49	.54
extrusion compounds, translucent metallic pearls, special black, dms., c.l., same basis	lb.	.42	—
l.c.l. same basis	lb.	.44	.49
Acetate-butyrate, flake, 17% butyryl content, ctns., 500 lbs. or over, works	lb.	.52	- —
less than 500 lbs., works	lb	.53	—
17.5% butyryl content, ctns., 500 lbs. or over, works	lb.	.48	- —
less than 500 lbs., works.	lb.	.49	- —
26.5% butyryl content, ctns., 500 lbs. and over, works	lb.	.50	- —
less than 500 lbs., works	lb.	.51	- —
37% butyryl content, ctns., 500 lbs. and over, works	lb.	.50	- .53
less than 500 lbs., works	lb.	.51	.54
46% butyryl content, ctns., 500 lbs. and over, works	lb.	.53	- —
less than 500 lbs., works.	lb.	.54	- —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld.	lb.	.56	.61
regular black, dms. l.c.l., same basis	lb.	.44	.48
variegations, dms., c.l., same basis	lb.	.61	.66
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more	lb.	.40	—
Cerium hydrate, dms., works	lb.	1.25	—
Oxalate, NF, bbls., bgs., works	lb	.70	.73
Oxide, optical grade, bgs., under 100 lbs., works	lb	2.25	—
kgs., 100-lb lots, works	lb.	1.85	—
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works	lb	.02⅞	.05½
l.c.l., ex whse	lb.	.04	—
paint, bgs., c.l., works	ton.	40.00	—
papermakers, ngs., c.l., works	ton.	32.50	40.00
rubber makers bgs., c.l., works	ton.	30.00	—
Chamomile flowers, Hungarian, cs	lb.	.48	- .55
Roman, bls.	lb.	.90	- 1.00
Charcoal, activated, USP, fib. dms., c.l., works	lb	.25	.32
5-ton lots, works	lb.	.26½	.32½
smaller lots, works	lb.	.27	.50
Bone, NF, bbls	lb.	.23	—
Hardwood, briquets, bulk, c.l., works	ton.	49.80	—
bgs., c.l., works	ton.	51.80	—
granular, bgs., incl., c.l., works.	ton.	46.80	59.00

Extruders of wire insulation, tubing, belting and other continuous shapes benefit from Marvinol's faster extrusion.

Processors find in Marvinol the highest molecular weight resin processable in present equipment.

Marvinol's superior flexibility in low temperatures pays off in products subjected to severe exposure and cold weather.

In products that must resist chemical and abrasive action, Marvinol fortifies against oils, acids, wear, tear.

Marvinol may be extruded, calendered, injection molded, dispersed for protective coating and slush molding.

Superior dimensional stability makes Marvinol ideal in products that must not shrink or deform under heat.

Marvinol's extra toughness and dryness makes plastics products more durable and pleasant to touch.

The entire efforts of our modern development laboratories are for our customers' benefit. All the formulation, compounding and processing information developed here is at your disposal since it is only through you that Marvinol-based products reach the consumer market. So write for the latest technical information today to Dept. O-3, NAUGATUCK CHEMICAL, 501 E. Preston St., Baltimore 2, Maryland.

Field engineers and customer research laboratories provide helpful technical service to Marvinol users.

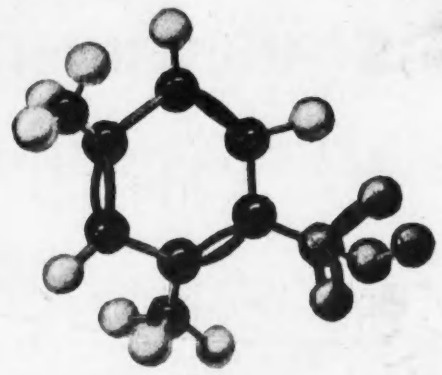
OTHER PRODUCTS OF NAUGATUCK CHEMICAL:
SPERGON fungicide for seed treating • PHYGON orchard and row crop spray fungicide • TUFOR 2-4-D weed killers • SHRINK-MASTER process for rendering woolens shrink-resistant and long-wearing • SURFA-SEALZ rubber compound for surfacing highways • KRALAC molding powders • VIBRIN Polyester resins • FQL chemical and heat resistant baking enamel • LOTOL compound latices, natural and synthetic • DISPERSITE water dispersions of reclaimed rubber and resins • Reclaimed Rubber • Aromatics • Synthetic Rubber • Rubber Chemicals • Raw Latex • Plasticizers.

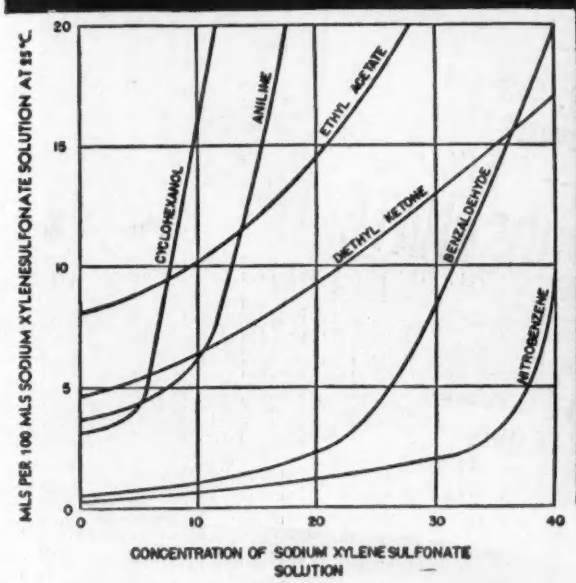
Marvinol
NAUGATUCK CHEMICAL
DIVISION OF UNITED STATES RUBBER COMPANY

Charcoal, hardwood, lump, bulk, c.l., works	ton.	38.80 - 43.50
bgs., extra, returnable, c.l., works	ton.	41.80 - 45.50
Pinewood, gran., powd., ogs., c.l., works, South	ton.	30.00 - 40.00
l.c.l., works	ton.	40.00 - 50.00
lump bgs., c.l., works, South	ton.	40.00 - —
bgs., l.c.l., works, South	ton.	40.00 - 50.00
bulk, c.l., works, South	ton.	30.00 - —
Willow, powd., bbls	lb	.06 - .07
Chestnut extract, 25% tannin, bbls., c.l., works	lb.	.0438- —
l.c.l., works	lb.	.0465- —
tanks, works	lb.	.0370- —
powd., 60% tannin, bgs., extra, c.l., works	lb.	.0960- —
l.c.l., works	lb.	.1115- —
China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l., works	ton.	12.50 - 13.00
l.c.l., works	ton.	13.50- 14.00
bulk, c.l., works	ton.	9.50 - 10.00
200 mesh, bgs., c.l., works	ton.	10.00 - 12.00
l.c.l. works	ton.	11.00 - 16.00
wet-grd., sflk-bolt, 99½%, 325 mesh bulk, c.l., works	ton.	13.00 - —
paper bgs., c.l., works.	ton.	16.00 - —
Imported, white lump, bulk, c.l., ex dock, Phila., Portland, Me.	gross ton.	19.00 - 40.00
powd., bgs., c.l., ex dock, net	ton.	35.00 - 45.00
l.c.l., ex whse net	ton.	45.00 - 60.00
Chloral, tech., 94% min., dms., l.c.l., works	lb.	.42 - —
Hydrate, USP, jars	lb.	1.05 - 1.10
Chloramine T, NF, bbls., works	lb.	.75 - 1.00
Chlordane, agricultural, dms., l.c.l. stock points	lb.	.82 - 1.03
refined, dms., stock points	lb.	.97 - 1.20
Chlorinated paraffin, dms., works	lb.	.12¼- .13½
Rubber, standard, ctns., c.l., works	lb.	.42 - —
l.c.l., works	lb	.43 - —
Chlorine, liquid, cyls., c.l., works	lb.	.07 - .12
l.c.l., stock points	lb.	.09 - .19
tanks, single units, works, frt. equald	100 lbs.	2.40 - —
multiple units, 3 cars, works, frt. equald	100 lbs.	2.70 - 2.90
2 cars, same basis	100 lbs.	3.30 - 3.50
1 car, same basis	100 lbs.	3.90 - 4.10
Chloroform, tech., dms., c.l., divd. E	lb.	.20 - —
l.c.l., same basis	lb.	.22 - —
tanks, same basis	lb.	.16 - —
USP, dms	lb.	.30 - .33
Chloro(4)-2-Toluidine, bbls.	lb.	1.38 - —
Chlorophyll, oil soluble, water soluble, cosmetic and pharmaceutical, bots.	lb.	4.00 - 4.50
Chloropicrin, com'l, bots	lb.	1.40 - —
cyls., 180-lbs., frt. alld	lb.	.91 - —
100-lbs., same basis	lb.	.93 - —
25-lbs., same basis	lb.	1.18 - —
Cholesterol, USP, fib. dms., 100-lb. lots	lb.	8.50 - —
5-lb. pkg.	lb.	9.00 - —
1-lb. pkg.	lb.	9.50 - —
Choline chloride, fib. dms., frt. adjusted	lb.	2.50 - 2.75
Dihydrogen citrate, fib. dms., same basis	lb.	2.50 - 2.75
Chromium acetate, powd., 72% Cr., bbls. works	lb.	No stocks
solut., 7½%, bbls., works	lb.	.08 - —
cbys.	lb.	.09¾- —
8½%, bbls., works	lb.	.08½- —
cbys.	lb.	.10¼- —
Fluoride, bbls., works	lb.	.44½- —
Green (see Green, chromium oxide).		
Oxide (see Green, chromium oxide).		
Oleate, solid, bbls	lb.	.49 - —
Trioxide, USP, bots.	lb.	.82 - —
Yellow (see Yellow, chrome).		
Chrysarobin, USP, bots.	lb.	7.65 - 9.24
Cinchona bark, NF, red, quill, 20-inch, cs	lb.	1.26 Nom.
broken, bgs	lb.	.40 - .45
yellow, broken, bgs	lb.	.32 - .35
Cinchonidine, cryst., cns., 100 ozs.	oz.	.71 - .72
Sulphate, cns., 100 ozs.	oz.	.40½- .55
Cinchonine, cryst., cns., 100 ozs.	oz.	.57 - .63
Sulphate, NF, cns., 100 ozs	oz.	.30½- .42
Cinchophen, NF, heavy density, dms., frt. adjusted	lb.	3.70 - 4.05
Standard density, dms., same basis	lb.	3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted	lb.	4.50 - 4.85
Cinnamic alcohol (see Alcohol, cinnamic)		
Aldehyde, cbys., cns., dms	lb.	.90 - 1.20
Cinnamon, Ceylon, No. 2, bls	lb.	.18¾- .19
Citral, bots., cns	lb.	5.25 - 5.50
Citronellal, bots., dms	lb	2.50 - 7.75
Citronellol, bots., dms	lb	2.95 - 4.75
Civet, bots	oz.	4.00 - 5.00
artificial, bots	lb.	15.00 - —
Clove, Madagascar, bls	lb.	.23 - .23½
futures, bls.	lb.	.22½- .23
Zanzibar, bls.	lb.	.24 - .25
futures	lb.	.25 - .26
Clover tops, red, dom., bgs	lb.	.55 Nom.
imported, bgs	lb	No stocks
CMC, purified, high vis., ctns., 20,000 lbs. or over, works, frt. alld	lb.	.60 - —
smaller lots, same basis	lb.	.62 - .72
low and medium vis., ctns., 20,000 lbs. or over, works, frt. alld	lb.	.57 - —
smaller lots, same basis	lb.	.59 - .69
tech., low and medium vis., dms., c.l., works, frt. alld	lb.	.45 - —
l.c.l., works	lb.	.48 - —
Coaltar, coal-gas, water-gas, crude, resale, dms., c.l., ex-whse,	gal.	.23½- —
l.c.l., ex-wnse	gal.	.25 - —
tanks, ex-whse	gal.	.13½- —
refd., resale, bbls., c.l., ex-whse,	gal.	.24½- —
l.c.l., ex-whse	gal.	.26 - —
tanks, ex-whse	gal.	.14½- —
Cobalt acetate, bbls., divd	lb.	.93½- —
Carbonate, powd., bgs., works	lb.	1.65 - —
feed grade, 49½% Co, kgs	lb.	1.65 - —
Chloride, kgs., works	lb.	.91¼- —
feed grade, 24.5% Co, kgs	lb.	.91¼- —
Hydrate, bbls.	lb.	2.13 - —
feed grade, 62% Co, kgs	lb.	2.13 - —
Linoleate, paste, 6% Co, dms.	lb.	.57 - —
solid, 8½%, Co, dms	lb.	.66½- —
8% Co, dms	lb.	62½- —
Metal, 97-99%, kgs., ex-whse	lb.	1.80 - —
under 100 lbs., ex-whse	lb.	1.82 - 1.87
Naphthenate, liq., 6% Co, dms.	lb.	.37¼- —
Nitrate, feed grade, 20.4% Co, bbls.	lb.	.78¾- —
Oxide, black, kgs	lb.	1.38 - —
Phosphate, feed grade, 34% Co, kgs	lb.	1.31¼- —
Resinate, fused, 3% Co, dms.	lb.	.22¾- —
Sulphate, bgs.	lb.	.68¼- —
feed grade, 21% Co, kgs	lb.	1.05 - —
Cobalt salts, prices are on	divd.,	basis
Cobalt-ammonium sulphate, 14% Co, kgs.	lb.	.75 - —
Cocaine, USP, cns., 100-oz.	oz.	15.00 - —
Hydrochloride, cns., 100-oz. lots	oz.	11.75 - —
Cochineal, gray, bgs	lb.	.67 - .68
silver, Teneriffe, bgs	lb.	.69 - .70
Cocillana bark, bgs	lb.	.16 - .17
Cocoa butter, bgs	lb.	.42 - .45
Codeine, NF, cns., 100 ozs	oz.	13.25 - —
Hydrochloride, cns., 100 ozs	oz.	11.85 - —
Phosphate, USP, cns., 100 ozs	oz.	10.25 - —
Sulphate, USP, cns., 100 ozs	oz.	10.75 - —
Codliver oil (see Oil, codliver).		
Cohosh, black, root, bls	lb.	.20 - .25
Blue, root, bls	lb.	.17 - .19
Colchicine, USP, bots., cns	oz.	79.00 - 85.00
Colchicum root, bls	lb.	.60 - .70
Seed, bgs	lb.	1.90 - 2.00
Collodion, USP, dms	lb.	.21 - —
Flexible, USP, dms	lb.	.22½- —
Colocyntn, pulp bls	lb.	.30 - .35
Colombo root, bls	lb.	.18 - .23
Coltsfoot leaves, bgs	lb.	.30 - .35
Condurango bark, bgs	lb.	.20 - .22
Copaiba balsam, cns., dms	lb.	.64 - .82
Copper acetate, cupric, bbls., works	lb.	.28 - —
smaller containers, works	lb.	.29 - .30
Carbonate, 55%, bgs., works	lb.	.1860- .2575
Chloride, anhyd., bbls., works	lb.	.25½- —
crystals, bbls., works	lb.	.17¾- —
Citrate, USP, 5-lb. bots	lb.	2.40 - —
Cyanide, tech., bbls	lb.	.46½- —
Gluconate, dms., cns	lb.	3.00 - 3.24
Hydrate, dms., divd. E. Miss	lb.	.24¾- .25¼
Metal, electrolytic, divd	lb.	.18½- —
Naphthenate, liquid, 8% Cu, dms., frt. alld	lb.	.22¼- —
Nitrate, tech., cryst., bbls., works.	lb.	.22¼- —
Oleate, liquid, 8.5% Cu, bbls	lb.	.27 - —
solid, 10% Cu, bbls	lb.	.39 - —
Oxide, black, bbls., works	lb.	.25½- .28⅞
red, com'l, bbls., works	lb.	.26⅞- .30⅝
Oxychloride-sulphate, bgs., frt. alld	lb.	.24¼- .27¼
Quinolate, fib. dms.	lb.	3.50 - —
Resinate, precip., dms., frt. alld.	lb.	.23½- —
Stearate, bgs., works	lb.	.39½- —
Copper sulphate, cryst., 99%, bgs., c.l., works	100 lbs.	7.00 - 7.25
l.c.l.	100 lbs.	7.25 - 8.25
CP, cryst., gran., dms., works	lb.	.12¾- —
monohydrated, 35%, dms., c.l., divd	100 lbs.	11.90 - 13.00
Tribasic, dealers, bgs., c.l., works	lb.	.1815- .2245
l.c.l., works	lb.	.2050- .2345
USP, gran., cryst., dms	lb.	.12¾- .26
Copperas, cryst., gran., bgs., c.l., works	ton.	17.00 - —
l.c.l., works	100 lbs.	1.55 - 2.00
bbls., c.l., works	ton.	20.00 - —
bulk, c.l., works	ton.	14.00 - —
Copra, c.i.f., Atlantic, Gulf ports	ton.	205.00 - —
Pacific ports	ton.	200.00 - —
Coriander seed, Argentine, bgs	lb.	.07 - .07¼
Italian, bgs	lb.	.07 Nom.
Moroccan, bgs.	lb.	.10½- .11
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min.	100 lbs.	5.69 - —
bbls., c.l., same basis	100 lbs.	5.75 - —
Syrup, 42°, bbls., c.l	100 lbs.	5.97 - —
l.c.l.	100 lbs.	6.12 - —
Cornsilk, bls	lb.	.15 - .19
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more	lb.	1.68 - —
gran., powd., dms., 50 lbs. or more	lb.	1.53 - —
Cottonroot bark, bls	lb.	.26 - .28
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton.		1.75 - —
Meal, 41% protein, bulk, Memphis	ton.	61.00 - 61.50
Coumarin, cns., 25 lb	lb.	2.75 - —
smaller lots	lb.	2.80 - 2.90
powd., cans	lb.	3.00 - 3.05
Cramp bark, NF, bls	lb.	.80 Nom.
Cranesbill root, bls	lb.	.28 - .30
Cream of tartar, dom., NF, gran. or powd., bbls., 5,000 lbs. one ship	lb.	.27½- —
smaller lots	lb.	.28 - .29
Imported, kgs.	lb.	.22 - .24
Creosote, coaltar, crude, tanks, works, frt. equald	gal.	.14 - .15
refined, dms., c.l., works	gal.	.36½- .40
l.c.l., same basis	gal.	.37½- .47
tanks, same basis	gal.	.23½- —
solution, 80%, tanks, works.	gal.	.168 - —
NF, beechwood, bots, cbys	lb.	1.15 - 1.20
hardwood, bots, cbys	lb.	.85 - —
Pinewood, dms	gal.	.31 - .33
Carbonate, NF, bots., cbys	lb.	2.35 - 2.49
Cresols, tech., dry, above 207°C, non-ret. dms., c.l. frt. equald.	lb.	.1130- .1230
l.c.l., same basis	lb.	.1160- .1230
ret. dms., c.l., same basis.	lb.	.11 - —
l.c.l., same basis	lb.	.113 - —
tanks, same basis	lb.	.10 - —
USP, non-ret., dms., c.l., same basis	lb.	.1180- —
l.c.l., same basis	lb.	.1210- —
ret. dms., c.l., same basis	lb.	.115 - —
l.c.l., same basis	lb.	.118 - —
tanks, same basis	lb.	.1050- —
Crotonaldehyde, 91-93%, dms., c.) works	lb.	.16½- —
l.c.l., works	lb.	.17 - .20
Cryolite, nat., dealers, bgs., c.l., works	100 lbs.	13.75 - —
bbls., l.c.l., works	100 lbs.	14.00 - —
Cube root, powd., 5% rotenone, bgs., ton lots, works	lb.	.28 - —

Charcoal, Hardwood, Lump—Cube Root

Make it dissolve





with Naxonate

Wyandotte Naxonate (a technical grade of sodium xylenesulfonate) is a hydrotropic salt which increases the solubility of many insoluble or slightly soluble organic chemicals in aqueous solutions (see graph above).

Through the action of this versatile chemical, valuable organic compounds are extractable from natural sources such as wood and shale; inflammable, toxic organic solvents may be replaced by water solutions; electrochemical oxidation and reduction becomes applicable to numerous organic compounds; and liquid commercial preparations can be kept transparent and free of sediment. These are only a part of the potential benefits this unique chemical can provide.

We will be glad to furnish samples of Wyandotte Naxonate, either as free-flowing powder or 40% aqueous solution. For further information regarding its properties and applications, send for your free copy of the booklet, "Naxonate."

Wyandotte Chemicals Corporation
Wyandotte, Mich. • *Offices in Principal Cities*

SODA ASH • CAUSTIC SODA
BICARBONATE OF SODA
CALCIUM CARBONATE • CALCIUM CHLORIDE
CHLORINE • HYDROGEN • DRY ICE
SYNTHETIC DETERGENTS • GLYCOLS
CARBOSE (Sodium CMC) • ETHYLENE DICHLORIDE
PROPYLENE DICHLORIDE
AROMATIC SULFONIC ACID DERIVATIVES
OTHER ORGANIC AND INORGANIC CHEMICALS

Wyandotte
REG. U. S. PAT. OFF.

Cubeb Berries—Dipentaerythritol

Cubeb berries, XX NF bgs. lb. .35 - .45
powd., cs. lb. .44 - .54
Culvers root, bbls. lb. .50 - .60
Cumene, dms., c.l. lb. .08 - —
l.c.l. lb. .09 - —
tanks gal. .53 - .56
Cumin seed, Iranian, bgs. lb. .16¼ - .16¾
Morocco, bgs. lb. .16½ - .16¾
Syrian, bgs. lb. .17 - .17½
Cutch, extract, 53% tannin, bgs., ex dock lb. 07 - —
Cyanamide, fertilizer mixing grades, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, bulk ton 46.50 - —
pulv., 21% N., bgs., same basis unit-ton 2.58 - —
Cyclohexane, tech., dms., c.l., works. lb. .10½ - .11⅛
l.c.l., works lb. .11 - .12
tanks, works lb. .09¼ - .10
Cyclohexanol, tech., dms., c.l., works. lb. .21½ - —
l.c.l., works lb. .22 - —
tanks, works lb. .20 - —
Cyclohexanone, tech., dms., c.l., works lb. .26½ - .30
l.c.l., works lb. .27 - .31
tanks, works lb. .25 - .29
Cyclohexylamine, dms., works lb. .34 - —
Cyclohexylamine, dms., c.l., works. lb. .34 - —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Cyclopropane, USP, 2 lb. cyls, works, cyl. 40.00 - —
6 oz. cyls., works cyl. 10.50 - —
Hospitals, cyls., 40 gal. lots gal .32 - —
100-gal. lots gal. .31 - —
200-gal. lots gal. .30 - —

D

2, 4-D, bbls., c.l., works, frt. equald. lb. .43 - .48
l.c.l., same basis lb. .48 - .60
Isopropyl ester, dms., c.l., works lb. .54 - —
l.c.l., works lb. .59 - .66
Damiana leaves, bls. lb. .40 - .45
Dandelion root, bls. lb. .40 - .45
DDD, tech., fine grd., fib. dms., c.l., works lb. .51 - —
l.c.l., works lb. .51½ - —
lump, fib. dms., c.l., works lb. .49 - —
l.c.l., works lb. .49½ - —
DDT, fiber dms., c.l., works, frt. equald lb. .32 - —
smaller lots, same basis lb. .33 - .35
Decanol, *normal*, tech., dms., c.l., dlvd lb. .34½ - —
l.c.l., dlvd. lb. .36½ - —
tanks, dlvd. lb .32 - —
Deertongue leaves, bls. lb. .30 - .35
Defluorinated phosphate, 65% b.p.l., paper bgs., works ton 44.15 - 55.75
Rock, 14½%P, paper bgs., works ton 45.00 - —
Degras, common, bbls. lb. .10½ - .13
Neutral, less 2% ffa., bbls lb. .22 - .23
over 2% ffa., bbls lb. .21 - .22
Derris root, 5% rotenone, pcwd. lb. .42 - —
Desoxyephedrine hydrochloride, dextro, dms. lb. 30.00 - —
dextro-laevo, dms. lb. 7.50 - —
Dextrin, corn, British gum, paper bgs., c.l. 100 lbs. 7.20 - —
Chicago 100 lbs. 6.55 - —
l.c.l. 100 lbs. 7.35 - —
Dextrin, corn, canary, paper bgs., c.l. 100 lbs. 6.94 - —
Chicago 100 lbs. 6.29 - —
l.c.l. 100 lbs. 7.09 - —
dark, paper bgs., c.l. 100 lbs. 7.04 - —
Chicago 100 lbs. 6.39 - —
l.c.l. 100 lbs. 7.19 - —
white, paper bgs., c.l. 100 lbs. 6.79 - —
Chicago 100 lbs. 6.14 - —
l.c.l. 100 lbs. 6.94 - —
Corn dextrin in cottos bgs. 12c. to 15c. per 100 lbs. higher.
Potato, bgs. lb. .08½ - .10
Tapioca, pure, envelope, bgs. lb. .15 - .16
Dextrose, USP, dms. lb. .17¾ - —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots. lb 4.00 5.55
laboratory grade, bots. 100 grams. 4.50 - —
tech., bots., works lb. 3.00 - —
Diamyl ether (see Ether, amyl)
Phthalate, dms., c.l., dlvd. E lb. .33½ - —
l.c.l., dlvd. E lb. .36½ - —
tanks, dlvd. E lb. .34 - —
Dianisidin, dms lb. 1.65 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton. 50.00 - 62.00
California ton. 38.00 - 40.00
l.c.l. ex whse ton. 50.00 - —
purified, bgs., c.l., Atl. coast ton. 62.00 - —
California ton. 50.00 - —
l.c.l. ex whse ton. 90.00 - —
Imported, Algerian, bgs., c.l., Atlantic coast ton. No prices,
Mexican, white, bgs., c.l., Atlantic coast lb .03 - —
l.c.l., Atlantic coast lb. .06 - —
Dibenzyl sebacate, dms., c.l., works. lb. .66½ - —
l.c.l., works lb. .67 - —
tanks, works lb. 65 - —
Dibutoxyethyl sebacate, dms., c.l., works lb. .53½ - —
l.c.l. works lb. .56 - —
tanks, works lb. .54 - —
Dibutyl phthalate, dms., c.l., dlvd lb .30½ - —
l.c.l., dlvd lb. 31½ - —
tanks, dlvd lb. .29 - —
Sebacate, dms., c.l., works lb. .51 - —
l.c.l., works lb. .51½ - —
tanks, works lb. .49½ - —
Tartrate, dms., works, frt. alld lb. .62 - —
Dibutylamine, dms., c.l., frt. alld lb. .51½ - .52½
l.c.l., frt. alld lb. .52½ - .53½
tanks, frt. alld lb. .49 - .50
Dicaprylpnthalate, dms., c.l., dlvd. lb. .38½ - —
l.c.l., dlvd lb. .39½ - —
tanks, dlvd lb. .37 - —
Sebacate, dms., c.l., works lb. .54½ - —
l.c.l., works lb. .55 - —
tanks, works lb. .53 - —
Dichloroanilin, dms., works lb. .75 - .80
Dichlorodiphenyldichloroethane (see DDD).
Dichlorodiphenyltrichloroetnane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .047 - —
l.c.l., works lb. .055 - —
tanks, works lb. .04 - —
Dichlorophenol, dmz., c.l., frt. equald lb. .27 - —
l.c.l., frt. equald lb. .28 - —
Dicyclohexylamine, dms., c.l., works lb. .37¼ - —
l.c.l., works lb. .38 - —
tanks, works lb. .36 - —
Dicyclohexylphthalate, fib. dms., c.l., works. lb. .42½ - —
l.c.l., same basis lb. .43½ - —
Diethanolamine, dms., c.l., b. lb. .25½ - —
l.c.l., same basis lb. .27½ - —
tanks, same basis lb .25 - —
Diethyl carbonate, dms., c.l., frt. alld lb. .36½ - —
l.c.l., same basis lb. .37½ - —
tanks, same basis lb. .35 - —
Maleate, dms., c.l., dlvd lb. .45 - —
l.c.l., dlvd lb. .49 - .52½
tanks, dlvd lb. .43½ - —
Oxalate, dms., c.l., frt. alld lb. .34½ - .35½
l.c.l., same basis lb. .35½ - .36½
tanks, same basis lb. .34 - —
Diethyl phthalate, dms., c.l., dlvd lb. .26 - .27½
l.c.l., dlvd lb. .27 - .28
tanks, dlvd lb. .24½ - .26
Sulphate, dms., c.l., works lb. .16 - —
l.c.l., works lb. .16½ - —
tanks, works lb. .14½ - —
Diethylamine, dms., c.l., frt. alld lb. .57 - —
l.c.l., works lb. .57½ - —
tanks, works lb. .55½ - —
Diethylanilin, dms. lb. .48 - —
Diethyleneglycol, dms., c.l., frt alld. E lb. .17¼ - —
l.c.l., same basis lb. .18½ - —
tanks, same basis lb. .16 - —
Boriborate, dms., l.c.l. lb. .28 - —
Diethylether, dms., l.c.l., works lb. .44 - —
Monobutylether, dms., c.l., works. lb. .24½ - —
l.c.l., works lb. .25 - —
tanks, works lb. .23 - —
Monobutylether acetate, dms., c.l., works lb. .26 - —
l.c.l., works lb. .26½ - —
Monoethylether, dms., c.l., works. lb. .18 - —
l.c.l., works lb. .18½ - —
tanks, works lb. .16½ - —
Monoethylether, acetate, dms., c.l., works lb. .24 - —
l.c.l., works lb. .24½ - —
Monomethylether, dms., c.l., works lb. .22 - —
l.c.l., works lb. .22½ - —
tanks, works lb. .20½ - —
Diethylenetriamine, dms., c.l., works. lb. .42 - —
l.c.l., works lb. .42½ - —
tanks, works lb. .40 - —
Diethylethanolamine, dms., c.l., works lb. .61½ - —
l.c.l., same basis lb. .62½ - —
tanks, same basis lb. .60 - —
Diethylstilbestrol, USP, bots kilo. 240.00 - 320.00
Digitalin, cryst., bots gram. 12.50 - 18.00
powd., bots oz. 25.00 - 30.00
Digitalis leaves, dms lb. .85 - 1.25
Digitoxin, USP, bots gram. 9.60 - 10.00
Diglycol, laurate, dms lb. .30 - .32
Oleate, dms lb. .25 - .27
Stearate, dms lb. .25 - .26
Dihexyl sebacate, dms., c.l., works, lb. .42½ - —
l.c.l., works lb. .43 - —
tanks, works lb. 41 - —
Dihydrostreptomycin hydrochloride and sulphate, hospitals, vials. gram. .60 - —
wholesalers, vials gram. .48 - —
Dihydroxydichlorodiphenylmethane, dms lb. .95 - 1.00
smaller containers lb. 1.05 - 1.40
Di-isobutyl ketone, dms., c.l. dlvd. lb. .14 - —
l.c.l., dlvd lb. .14½ - —
tanks, dlvd lb. .12½ - —
Di-isobutylene, dms., c.l., works lb. .07 - —
l.c.l., works lb. .07½ - —
tanks, works lb. .05½ - —
Di-isooctyl phthalate, dms., c.l., dlvd. lb. .41½ - —
l.c.l., same basis lb. .42 - .42½
tanks, same basis lb. .40 - —
Dillseed, natural, bgs lb. .10½ - .11
dewhiskered, bgs. lb. .12 - .12½
Dimethyl phthalate, dms., c.l., dlvd. lb. .26½ - —
l.c.l., dlvd lb .27 - —
tanks, dlvd lb. .25 - —
Sebacate, dms., c.l., works lb. .69½ - —
l.c.l., works lb. 70 - —
tanks, works lb. .68 - —
Sulphate, 55-gal. ret., dms., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
10-gal. ret. dms., works lb. .16½ - —
Dimethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .37 - .38
l.c.l., works, basis 100% lb. .38 - .38½
tanks, works, basis 100% lb .33 - —
Dimethylanilin, dms., c.l. lb. .23 - —
l.c.l. lb. .25 - —
tanks lb. .21 - —
Dimethylethanolamine, dms., c.l., dlvd lb. 1.43 - —
l.c.l., dlvd. lb. 1.45 - —
tanks, dlvd. lb. 1.40 - —
Dinitroaniln, dms., frt. equald lb .59 - —
Dinitrobenzene, crude, bbls lb. .16 - —
Dinitrochlorobenzene, 48° C m.p., dms., c.l lb. .13½ - .14¼
l.c.l. lb. .14 - .15
tanks lb. .13¼ - .14¼
Dinitrophenol, bbls. lb. .28 - —
Dinitrotoluene, oily, dms lb .07 - .09
refd., dms. lb. .21 - —
Dinonylnapnthalene, c.l., dms., works lb. .13 - —
l.c.l., dms., works lb. .14 - —
tanks, works lb. .12 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .41½ - —
l.c.l., frt. alld lb. .42 - .42½
tanks, frt. alld lb. .40 - —
Diorthotolylguanidin, dms., ton lots, dlvd lb. .48 - —
smaller lots, dlvd lb. .50 - —
Dioxan, dms., c.l., frt. alld lb. .25 - —
l.c.l., same basis lb. .25½ - —
tanks, same basis lb. .23½ - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works lb. .34 - —

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DDT Government Specifications

2, 4-D Acid, Salt and Isopropyl Ester

TRICRESYL PHOSPHATE

ERGOSTEROL
(Non Irradiated)

MONTROSE CHEMICAL COMPANY
LISTER AVENUE, NEWARK, NEW JERSEY

SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

Dipentene, dest.-dist., dms. incl., c.l., works, South . gal. .35 - .53
l.c.l., same basis . gal. .36 - .55
N. Y. whse. . gal. .46 - —
tanks, works, South . gal. .20 - —
steam-dist., dms., c.l., works, South . gal. .36 - —
l.c.l., works, South . gal. .46 - —
dlvd. N. Y. . gal. .52 - —
Diphenyl, bbls., c.l., works . lb. .15 - —
l.c.l., works . lb. .16 - .20
Oxide, perfume grade, cns., dms. lb. .43 - .52
Diphenylamine, bbls . lb .26 - —
Diphenylguanidin, dms., ton lots . lb. .39 - —
smaller lots . lb .40 - —
Diphenylhydantoin-sodium, USP, dms. lb. 3.25 - 3.50
Dipropylenegiycol, dms., c.l., frt. alld . lb. .14½ - —
l.c.l., same basis . lb. .15½ - —
tanks, same basis . lb. .13 - —
Dipropylenegiycol methylether, dms., c.l., frt. equaid . lb. .18 - —
l.c.l., same basis . lb. .18½ - —
tanks, same basis . lb. 16½ - —
Ditertiarybutylmetacresol, dms., c.l., works . lb. .32 - —
l.c.l., works . lb. .33 - —
tanks, works . lb. .31 - —
Ditertiarybutylparacresol, dms., c.l., works . lb. .91 - —
l.c.l., works . lb .95 - —
Divi-divi, 43% tannin, bgs., bls., c.l., U. S. ports, ex dock . ton. 68.00 - —
Divinylbenzene, 15% dms., c.l., works . lb. .25 - —
l.c.l., works . lb. .26 - —
tanks, works . lb. .24 - —
40% dms., c.l., works . lb. .55 - —
l.c.l. works . lb .60 - .65
Dodecyltoluene, dms., c.l., works . lb. .14 - —
l.c.l., works . lb. .15 - —
tanks, works . lb. .13 - —
Doggrass root, dom., cut, bls . lb. .20 .24
imp., NF, cut, bls . lb. .25 .30
Dogwood bark, Jamaica . lb. .10 .14
Dragon's blood, drops, cs . lb. .45 .47
mass, cs. . lb. .90 - 1.00
reeds, cs . lb. 1.75 2.00

Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots, dlvd.:—

Blue, FD&C, No. 1, cns. . lb. 17.00 - 17.60
No. 2, cns. . lb. 17.00 - 17.60
Green, FD&C, No. 1, cns. . lb. 17.00 - 17.60
No. 2, cns. . lb. 22.20 - 22.85
No. 3, cns. . lb. 35.25 - 35.90
Orange, FD&C, No. 1, cns. . lb. 3.65 - 3.75
No. 2, cns. . lb. 4.65 - 4.75
Red, FD&C, No. 1, cns. . lb. 7.55 - 7.85
No. 2, cns. . lb. 4.00 - 4.10
No. 3, cns. . lb. 22.20 - 22.85
No. 4, cns. . lb. 7.30 - 7.50
No. 32, cns. . lb. 5.30 - 5.40
Yellow, FD&C, No. 1, cns. . lb. 10.50 - 11.05
No. 3, cns. . lb. 3.30 - 3.40
No. 4, cns. . lb. 3.30 - 3.40
No. 5, cns. . lb. 4.00 - 4.10
No. 6, cns. . lb. 4.00 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

Black, D&C, No. 1, cns. . lb. 10.95 - —
Blue, D&C, No. 4, cns. . lb. 13.55 - —
Brown, D&C, No. 1, cns. . lb. 16.10 - —
Green, D&C, No. 5, cns. . lb. 16.10 - —
No. 6, cns. . lb. 16.10 - —
No. 7, cns. . lb. 14.30 - —
Orange, D&C, No. 3, cns. . lb. 10.95 - —
No. 4, cns. . lb. 20.05 - —
No. 5, cns. . lb. 5.70 - —
No. 10, cns. . lb. 20.70 - —
Red, D&C, No. 8, cns. . lb. 3.75 - —
No. 9, cns. . lb. 3.75 - —
No. 10, cns. . lb. 3.00 - —
No. 11, cns. . lb. 2 25 - —
No. 12, cns. . lb. 3.00 - —
No. 17, cns. . lb. 10.95 - —
No. 18, cns. . lb. 24.00 - —
No. 19, cns. . lb. 20.05 - —
No. 21, cns. . lb. 4.70 - —
No. 22, cns. . lb. 10.95 - —
No. 28, cns. . lb. 24.65 - —
No. 33, cns. . lb. 17 45 - —
Violet, D&C, No. 1, cns. . lb. 16.10 - —
No. 2, cns. . lb. 16.10 - —
Yellow, D&C, No. 7, cns. . lb. 10.95 - —
No. 8, cns. . lb. 10.95 - —
No. 10, cns. . lb. 13.50 - —
No. 11, cns. . lb. 13.50 - —
No. 22, cns. . lb. 9.15 - —
No. 33, cns. . lb. 14.65 - —
No. 37, cns. . lb. 13.55 - —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

Blue, Ext. D&C, No. 1, cns. . lb. 16.10 - —
Green, Ext. D&C, No. 1, cns. . lb. 16.10 - —
Red, Ext. D&C, No. 1, cns. . lb. 13.50 - —
Yellow, Ext. D&C, No. 1, cns. . lb. 10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype):

20 Chrysodine G. . lb. .59 - —
27 Orange G. . lb. .71 - —
31 Amido naphthol red G. . lb. .59 - —
36 Alizarine yellow 2G . lb. .76 - —
40 Alizarine yellow R . lb. .97 - —
57 Amido naphthol red 6B . lb. .90 - —
79 Ponceau R. . lb. .68 - —
151 Orange II. . lb. .44 - —
165 Red lake C. . lb. 1.05 - —
179 Azo rubine . lb. .95 - —
176 Red lake A . lb. .80 - —
180 Diamond blue 3B . lb. .84 - —
185 Cochineal red A . lb. .85 - —
202 Chrome blue black R . lb. .62 - —
203 Chrome black T . lb. .72 - —
208 Sulphon acid blue R . lb. .83 - —
216 Acid alizarin red B . lb. .77 - —
234 Resorcin brown . lb. .82 - —
246 Naphthol blue black . lb. .78 - —
278 Benzo fast red SBL . lb. 2.74 - —
289 Sulphon cyanine 5R extra . lb. 1.00 - —
299 Diamond black F . lb. 1.78 - —
304 Nerol 2B . lb. 1.84 - —
326 Benzo fast orange S . lb. 1.45 - —
332 Bismarck brown R . lb. .78 - —
365 Chrysophenine . lb. 2.14 - —
382 Diamine black BH . lb. 1.51 - —
401 Diamine black BH . lb. .58 - —
406 Benzo blue 2B conc. . lb. .98 - —
419 Diamine fast red F . lb. 1.05 - —
420 Diamine brown M . lb. .82 - —
448 Benzo purpurine 4B . lb. 1.06 - —
518 Diamine sky blue FF . lb. 1.48 - —
561 Trisulphon brown B . lb. 1.78 - —
581 Direct deep black EW extra. lb .81 - —
593 Diamine green B . lb. .60 - —
598 Congo brown G. . lb. 1.20 - —
620 Sun yellow . lb. .84 - —
639 Xylene light yellow . lb. 1.77 - —
640 Tartrazine . lb. 1.34 - —
655 Auramine . lb. 1.69 - —
657 Malachite green . lb. 1.93 - —
662 Brilliant green . lb. 2.55 - —
667 Brilliant milling green B . lb. 3.27 - —
671 Glaucine . lb. 1.54 - —
680 Methyl violet B . lb. .95 - —
681 Crystal violet . lb. 1.91 - —
698 Formyl violet S4B . lb. 1.51 - —
720 Chrome azurol B . lb. 3.60 - —
729 Victoria blue B . lb. 2.48 - 2.68
737 Wool green S . lb. 2.14 - —
749 Rhodamine B . lb. 3.85 - —
814 Chloramine yellow . lb. 2.76 - —
841 Safranine . lb. 2.58 - —
865 Nigrosine WSJ 78 . lb. .56 - —
922 Methylene blue GXX . lb. 1.28 - —
969 Hydron blue R . lb .72 - —
978 Sulphur black T extra . lb. .23½ - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype):

1027 Alizarin VI . lb. .64 - —
1034 Alizarin red S . lb. 2.30 - —
1054 Alizarin saphiro B . lb. 2.59 - —
1078 Alizarin cyanine green . lb. 2.61 - —
1083 Alizarin blue black B . lb. 2.13 - —
1086 Indanthrene golden orange G, single paste . lb 1.96 - —
double paste . lb. 3.92 - —
1099 Indanthrene dark blue BO, single paste . lb. 1.72 - —
1101 Caledon jade green . lb. 2.35 - —
1106 Indanthrene blue RS, double paste . lb. 2.53 - —
1113 Indanthrene blue GCD, double paste . lb. 1.73 - —
1150 Indanthrene olive R, single paste . lb. 1.08 - —
1151 Indanthrene brown R, single paste . lb. 1.65 - —
double paste . lb. 3.29 - —
1212 Indanthrene red violet RH, single paste . lb. 1.54 - —
1217 Helindon orange R, single paste . lb. 1.97 - —
p-4 Acid anthracine brown P G. lb. 2.48 - —
p-14 Anthracene chromate brown EB . lb. 1.25 - —
p-24 Benzo fast black L . lb. 1.94 - —
p-80 Diazo brilliant scarlet ROA. lb. 2.55 - —
p-202 Zambesi black V . lb. .97 - —
p-244 Celliton scarlet B . lb. 1.25 - —
p-313 Naphthol AS-SW . lb. 2.74 - —

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

Black, blue, No. 550 . lb. .72 - —
Jet, No. 551 . lb. .79 - —
Brown, R, conc . lb. 1.44 - —
Orange R, brilliant . lb. .80 - —
Red 4 B, conc . lb. 1.22 - —
Yellow, C . lb. 1.05 - —
FN, conc . lb. 1.06 - —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works,

Auramine, O . lb. 1.68 - —
Black, basic, blue . lb. 1.08 - —
Jet . lb. 1.08 - —
Blue, methylene, 2 B, conc . lb 1.44 - —
Brown, Bismarck, R, conc . lb. .78 - —
Chrysodine, R, extra . lb. .54 - —
Y, extra . lb. .58 - —
Fuchsine, conc . lb 2.34 - —
Green, malachite, conc . lb. 1.80 - —
Rhodamine, B . lb. 3.97 - —
Safranine, Y, conc . lb. 2.66 - —
Violet, methyl, B . lb. 1.08 - —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works.

Black, acid blue, B extra . lb. .76 - —
Orange, acid, Y, conc . lb. .43 - —
Rhodamine, azo- R, extra conc. . lb. 3.07 - —
Rhodamine, R, extra, conc . lb. 3.07 - —
Scarlet, croceine, MOO . lb. 1.33 - —
Yellow, azo-, conc . lb. .32 - —
Fast light, 3 G, extra . lb. 1.99 - —
Methanil, conc . lb. .83 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

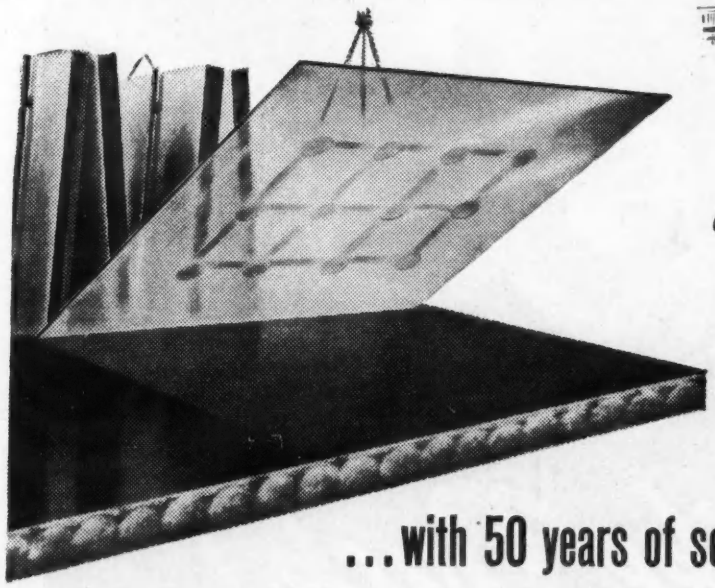
Echinacea root, bls . lb. .45 .55
Egg albumen (see Albumen).
Yolk, dried, dom., bbls . lb. 1.10 - 1.13
tanners, bbls . lb. .06½ .07
Elder flowers, bright, bls . lb. .40 .50
Elecampane root, bls . lb. .22 .25

Dipentene—Ether, Divinyl

Elm bark, grinding, bls . lb. .30 .35
powd., bbls., bxs . lb. .40 .45
select, bndls . lb. .55 .60
Emetine hydrochloride, USP, bots . oz. 38.75 - 42.00
Ephedra herb, bls . lb. .30 - .33
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs . oz. .98 - —
hydrous, bots., 100 ozs . oz. .92 - —
Hydrochloride, tin, 100 ozs . oz. .75 - —
Sulphate, cryst., tins, 100 ozs. oz. .72 - —
powd., tins, 100 ozs . oz. .73 - —
Epichlorohydrin, dms., c.l., works . lb. .36½ - —
l.c.l., works . lb. .37 - —
tanks, works . lb. .35 - —
Epinephrine, synth., USP, bots., 100 grams . gram. .45 - —
Epsom salt, tech., bgs., c.l., works. 100 lbs. 2.15 - —
l.c.l., works . 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works . 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal . 100 lbs. 3.10 - —
smaller lots . 100 lbs. 3.35 - —
Ergot, NF, dms., tin-lined . lb. 5.00 Nom.
Eserine, bots. . oz. 45.00 - 50.00
Salicylate, USP, bots . oz. 36.00 - 40.00
Sulphate, bots. . oz. 35.00 - 36.00
Ether, acetate (see Ethyl acetate).
Butyl, dms., c.l., dlvd . lb. .30½ - —
l.c.l., dlvd . lb. .31 - —
tanks, dlvd . lb. .29 - —
Butyric (see Ethyl butyrate).
Dichloroethyl, purif., dms., works. lb. .16½ - —
l.c.l., same basis . lb. .17 - —
tanks, same basis . lb. .15 - —
Divinyl, USP, anesthesia, bots., 50 cc, hospitals . bot. 1.00 - —
75 cc, hospitals . bot. 1.58 - —

as you were in 1900

Glass-making involved many arduous, cumbersome and even dangerous processes, as did such industries as soap, paper and textile manufacture, water purification and sewage treatment.



as you are today

Many new methods and improved materials take the guesswork —and the hazards —out of modern glass-making.

...with 50 years of service by Niagara Alkali

One of the world's oldest industries is very young in ideas. That's why glass-making has made such strides toward efficiency of operation, quality of products and safety of its workers in the last 50 years.

Fifty years spell progress at Niagara Alkali, too. A pioneer in American production of liquid chlorine and caustic soda, and now observing its fiftieth anniversary, Niagara has shown consistent progress by the development of new and better chemicals which, in turn, stimulate progress in the fields it serves: paper, soap, glass, textiles, sewage treatment, water purification and others.

NIAGARA ALKALI COMPANY

60 East 42nd Street, New York 17, N. Y.

Liquid Chlorine • Caustic Potash • Carbonate of Potash • Paradichlorobenzene • Caustic Soda
Niagathal (Tetrachloro Phthalic Anhydride) • NIALK TRICHLORethylene

Ether, Ethyl—Glue, Bone

Ether, ethyl, absolute, ACS, dms	lb.	.30	—
anesthesia, USP, hospital, cns.	lb	.75	.90
Industrial, USP, dms., c.l., dlvd.	lb.	.10½	—
l.c.l., same basis	lb.	.12½	—
tanks, same basis	lb.	.08½	—
synthetic, dms., incl., dlvd. East	lb.	.10½	—
l.c.l., same basis	lb.	.12½	—
tanks, same basis	lb.	.08½	—
Isopropyl, dms., c.l., dlvd	lb.	.06	—
l.c.l., dlvd	lb.	.06½	—
tanks, dlvd	lb.	.04½	—
Nitrous, cone., bots., 100 lbs	lb.	1.03	1.10
Ethyl acetate, natural, fermentation, 85-88% dms., c.l. frt alld.	lb	.10½	—
l.c.l. frt alld	lb	.11½	—
tanks, frt alld	lb	.09	—
85-98%, dms., c.l., frt alld.	lb	.10¾	—
l.c.l. frt alld	lb	.11¾	—
tanks, frt alld	lb	.09¼	—
99%, dms., c.l., frt alld.	lb	.11	—
l.c.l. frt alld	lb	.12	—
tanks, frt. alld	lb.	.09½	—
synthetic, 85-90%, dms., c.l., frt. alld	lb.	.10½	—
l.c.l. frt alld	lb	.11½	—
tanks, frt. alld	lb.	.09	—
95-98%, dms. c.l., frt. alld.	lb	.10¾	—
l.c.l. frt alld	lb	.11¾	—
tanks, frt. alld	lb	.09¼	—
99%, dms., c.l., frt. alld	lb	.11	—
l.c.l. frt alld	lb	.12	—
tanks, frt. alld	lb.	.09	—
Acetoacetate, dms., c.l., dlvd	lb	.47½	—
l.c.l., dlvd.	lb	.48½	—
tanks, dlvd.	lb	.46	—
Ethyl acrylate, dms., c.l., and truckload, works	lb.	.49	—
less than truckload, works	lb.	.49½	—
tanks, works	lb.	.48	—
Benzoate, dms	lb.	.68	—
Betaethoxypropionate dms. works	lb	.70	—
Bromide, tech., 98% dms	lb	.39	.41
Butyrate, bots.	gal	4.75	—
cns., works	lb	.65	.70
dms., works	lb	.60	—
Carbamate (see Urethane)			
Chloride, tech., tanks frt alld. East	lb	.13½	—
USP bbls., cyl	lb	.20	.22
Cinnamate, cns	lb	2.30	3.60
Formate, dms.	lb	.35	—
Iodide, bots., works	lb.	3.50	- 4.27
cbys., works	lb.	2.60	- 2.85
Lactate, dms., works	lb.	.41	- —
Methacrylate, dms., c.l. and truckload, works	lb.	.50	- —
less than truckload, works	lb.	.50½	- .60
Nitrite (see Ether, nitrous)			
Oenanthate, dms	lb	1.00	2.00
Oleate dms., l.c.l. works	lb	.53	—
Oxalate (see Diethyl oxalate).			
Silicate, dist (see Tetraethylorthosilicate).			
40% available SiO_2, dms. works.	lb	.55	- —
Ethylalphanaphthylamine dms	lb	80	—
Ethylanilin, dms	lb	60	—
Ethylbenzene, dms., c.l	lb	14	—
l.c.l.	lb.	.15	- —
tanks	lb.	.13	- —
Ethylcellulose, 5lb dms. 5,000 lbs. works	lb	.52	—
smaller lots, works	lb	.54	.62
Ethylene dichloride, dms., c.l., works, frt alld. E. of Rockies	lb	09¼	—
W of Rockies	lb.	.10½	—
l.c.l., works, frt. alld., E. of Rockies	lb	10½	—
W of Rockies	lb	11½	—
tanks, frt. alld., E. Rockies	lb	.08	—
W of Rockies	lb	.09	—
Oxide, cyls., c.l., works	lb	23¾	—
l.c.l., works	lb	.24¾	—
tanks, frt. alld. East	lb	.16¾	—
Trichloride (see Trichloroethane)			
Ethylenediamine, dms., c.l. works.	lb	.42	—
l.c.l., works	lb	42½	—
tanks, works	lb	.40	—
Ethyleneglycol, dms., c.l., frt alld. E	lb	.18	—
l.c.l., same oasis	lb	.17	—
tanks, same basis	lb.	.14½	—
Diethylether, dms., l.c.l. works	lb	.50	—
Monobutylether, dms., c.l., works	lb.	.20	—
l.c.l., works	lb.	.20½	—
tanks, works	lb.	.18½	—
Monoethylether, dms., c.l., works.	lb.	.18	—
l.c.l., works	lb.	.18½	—
tanks, works	lb.	.16½	—
Monoethylether acetate, dms., c.l., works	lb.	.16	—
l.c.l., works	lb.	.16½	—
tanks, works	lb.	.14½	—
Monomethylether, 6 m s., c.l., works	lb	19½	—
l.c.l., works	lb	.20	—
tanks, works	lb	.18	—
Monomethylether acetate, dms., c.l., works	lb	24¼	—
l.c.l., works	lb	.25	—
tanks, works	lb.	.23	—
Monostearate, dms.	lb.	.33	—
Ethylethanolamines, mixed dms., c.l., works	lb	.32	—
l.c.l., works	lb	.33	—
Ethylmorphine hydrochloride, USP bots	oz.	11.85	—
Ethylorthotoluidine, bbls.	lb	.80	—
Ethylvanillin cns. 3 lbs or more	lb	6.75	—
smaller lots	lb	6.80	6.90
Eucalyptol, USP, cns., dms.	lb	1.25	2.05
Eucalyptus leaves, bls	lb	.10	.14
Eugenol, prime, USP	lb	2.05	2.75
Euphorbia, pil., nero. ols	lb	18	.20

F

Feldspar enamel, 100 mesh, bgs., works	ton.	20.00	-22.00
Glass, 20 mesh, bulk, tons, works.	ton.	11.75	-12.50
Pottery, bgs., ton lots, works	ton.	20.00	-22.00
bulk, c.l., works	ton.	18.00	-20.00
Fennel seed, Argentine, bgs.	lb.	.16	Nom.
French, bgs.	lb.	.12	Nom.
Indian, bgs.	lb.	.12	- .12½
Fenugreek, domestic, bgs.	lb.	No stocks.	
Indian, bgs	lb.	.11	- .11½
futures, bgs.	lb.	.11	- .11½
Moroccan, bgs.	lb.	.07	- .07¼
Syrian, bgs	lb.	.07	- .07½
Ferric-ammonium citrate (see iron-ammonium citrate)			
Ferric cacodylate (see iron cacodylate).			
Ferric glycerophosphate (see Iron-glycerophosphate).			
Ferric hypophosphite (see Iron hypophosphite).			
Ferric sulphate (see Iron sulphate, ferric).			
Film scrap, colored, cs., works	lb.	.11½	—
water-white, cs., works	lb.	.13½	—
Fir balsam, Canada, cns.	gal.	32.50	-33.00
Oregon, bbls.	gal.	2.35	- 2.60
Fishberries, bgs.	lb.	.20	- .25
Fishliver oil (see Oil, fishliver).			
Fishmeal, ground, 60% protein, bgs., Balto. area	ton.	160.00	- —
Fishscrap, dried, 60% protein, bulk, Balto area	ton.	150.00	- —
Fleaseed (see Psyllium seed)			
Fringetree bark, bls.	lb	42	48
Fluorspar, acid grade, bgs., c.l. mines	ton.	47.50	- —
l.c.l., mines	ton	49.50	—
bulk, contract, c.l., mines	ton	42.00	—
noncontract, c.l., mines	ton	45.00	—
l.c.l., mines	ton	47.00	—
ceramic grade, No. 1, ground 90-92% CaF_2, bulk, c.l., mines net	ton.	39.00	41.00
powd., 90-92%	ton.	41.00	—
foundry grade, lump, 55-60%	ton.	34.00	—
washed, gravel, 70% or more, CaF_2, bulk, c.l., mines	ton.	35.00	-37.00
65% bulk, c.l., mines	ton.	34.00	-36.00
60% bulk, c.l., mines	ton	33.00	-35.00
less than 60% bulk, c.l., mines	ton.	32.00	34.00
Formaldehyde, USP (inhibited), dms., c.l., E. works	lb	.0570-	—
l.c.l., E. works	lb	.0620-	—
tanks, E. works	lb	.0370-	—
methanol-free (uninhibited), tanks, works	lb	.0350-	—

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard, as well as W. of Rockies, prices f.o.b. Texas plants, are .022 for inhibited and .020 for uninhibited.

Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines	ton.	30.00	—
Tex., mines	ton.	27.00	—
spent, bulk, Bayonne	ton	2.00	4.00
imported, bgs., c.l.	ton.	30.00	-40.00
Furfural, tech., dms., c.l., works	lb	.12	—
l.c.l., works	lb	.14	—
tanks, works	lb	.09½	—
Fusel oil, refined, dms., c.l., dlvd	lb.	.21½	—
l.c.l., dlvd.	lb.	.22½	—
tanks, dlvd.	lb.	.20	—
Fustic extract, cryst., No. 1, bbls., l.c.l.	lb.	42½	—
No. 1A, bbls., l.c.l.	lb	41½	—
No. 2, bbls., l.c.l.	lb.	40½	—
No. 3, bbls., l.c.l.	lb.	.38½	—
liquid, No. 0, bbls., l.c.l.	lb	.22	—
No. 1, bbls., l.c.l.	lb.	.20½	—
No. 2, bbls., l.c.l.	lb	19½	—
No. 3, bbls., l.c.l.	lb.	17	—
solid, No. 1 bxs., l.c.l.	lb	28	—

G

G salt, bbls	lb	59	60
Galangal root, bls.	lb.	.23	- .25
Gambier, plantation, bgs., ex dock	lb	No stocks.	
Extract, bbls		No stocks.	
Gammapicoline, 97% dms., c.l., works	lb.	1.00	1.05
Gasoline, at refinery, ex tax, Arkansas, 80 octane, tanks	gal.	.09875-	—
Bayonne, 83 octane, tanks	gal.	.1070-	—
Gulf coast, 80 octane, tanks	gal.	.10	- .11
Group 3, 80 octane, tanks	gal.	.095	- .0975
Pennsylvania, western, U. S. motor, 83 octane, tanks	gal.	.12	- —
natural, 26-70 octane, tanks	gal.	.04	- —
Gelatin, silver label, imported, cs	lb.	1.15	—
Gelsemium root, bls.	lb	.25	.30
Gentian root, bls	lb.	.13	- .17
grd., bbls., bxs.	lb.	.17	- .18
powd., bbls., bxs.	lb.	.18	.21
Geraniol, extra, cns., dms.	lb	2.50	2.75
prime	lb	2.20	2.40
Geranyl acetate, cns.	lb.	2.65	3.90
Ginger, oleoresin, African, bots.	lb.	7.50	- 8.50
Jamaican	lb.	9.50	—
Root, African, bls.	lb.	.44	- .44½
Cochin, bleached, bgs., futures	lb.	No stocks.	
unbleached, bgs., futures	lb.	No stocks.	
Jamaica, No. 1, bgs., old crop	lb.	.50	- .51
No. 2, bgs., old crop	lb.	.48	- .49
No. 3, bgs.	lb.	.42	- .42½
Mar.-Apr. shipment, bgs.	lb.	.40	- .40½
Rhattoon, bgs.	lb.	.40	- .41
Nigerian, split, bgs.	lb.	.36	- .37
Ginseng root, cs	lb.	12.00	-16.00
Glauber's salt, anhyd. (see Sodium sulphate)			
cryst., bgs., c.l., works	100 lbs.	1.60	- —
l.c.l., bgs., works	100 lbs.	1.75	- 2.00
Glue, bone, calcium type, 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest	lb.	.17½	—
65 jellygrams, bgs., c.l., same basis	lb.	.19	—
80 jellygrams, bgs., c.l., same basis	lb.	.20	—
110 jellygrams, bgs., c.l., same basis	lb.	.21	—
130 jellygrams, bgs., c.l., same basis	lb.	.22	—
Over 150 jellygrams, bgs., c.l., same basis	lb	24	—
Bone glue, l.c.l., 1c. per lb. higher than c.l.			
ground, 65 jellygrams, bgs., c.l. (50,000 lbs.), dlvd.	lb.	.19½	—
l.c.l., same basis	lb.	.20½	—

THE fight is on to save more lives in 1950! Now is the time to back science to the hilt in its battle against cancer.

Important gains have already been made. Last year, 67,000 men, women and children were rescued from death by cancer. Many more can be saved—if *you* resolve to save them—if *you* strike back at cancer.

Give! Give your dimes and quarters and dollars. More treatment facilities are needed, more skilled physicians, more medical equipment and laboratories. The success of great research and educational programs depends on your support.

Your contribution to the American Cancer Society supports these vital efforts. It helps guard your neighbor, yourself, your loved ones. So this year, strike back at cancer . . . Give more than before . . . Give as generously as you can.

AMERICAN CANCER SOCIETY

Glue, hide, 100-121 (jellygrams), bgs., c.l., dlvd..lb. .22 - .25
122-149, bgs., c.l., dlvd .....lb .23 .26
150-177, bgs., c.l., dlvd.....lb. .24 .27
178-206, bgs., c.l., dlvd.....lb. .25 .29
207-236, bgs., c.l., dlvd.....lb. .26 .30
237-266, bgs., c.l., dlvd.....lb. .27 .31
267-296, bgs., c.l., dlvd.....lb .28 .32
299-330 bgs., c.l., dlvd.....lb .29 .33
331-362, bgs., c.l., dlvd.....lb. .30 .33
363-394, bgs., c.l., dlvd.....lb .31 .34
395-427, bgs., c.l., dlvd.....lb .32 .35
428-460, bgs., c.l., dlvd.....lb .33 .36½
461-494, bgs., c.l., dlvd .....lb .34 .38
495-529 bgs. c.l., dlvd .....lb .35 .39

Hide glue, t.c.l., prices 1c. higher than c.l.) bbls. ½c more than bgs.

Glycerin, crude, saponification, 88% to refiners, tanks, dlvd lb. .16¾ 18¾
soapiye, 80% tanks, dlvd . lb. 15¼ .16½
dynamite, dms., c.l., dlvd..... lb .24 —
t.c.l., dlvd ..... lb .24½ —
tanks, dlvd ..... lb 23½ —
high gravity, dms., c.l., dlvd...lb. .24¼ - —
t.c.l., dlvd ..... lb. .24¾ —
tanks, dlvd ..... lb. .23¾ - —
refined, BP, 98%, dms., c.l., dlvd. lb. .25½ - —
t.c.l., dlvd ..... lb. .26 —
tanks, dlvd ..... lb. .25 —
USP, c.p., 95%, dms., c.l., dlvd. lb. .24¾ - —
t.c.l., dlvd ..... lb. .25¼ - —
tanks, dlvd ..... lb. .24¼ - —
yellow, distilled, dms., c.l., dlvd lb. .24½ - —
lb. .24½ - —
t.c.l., dlvd ..... lb. .24¾ - —
tanks, dlvd. ..... lb. .23¾ - —
Glycine USP (see Acid, aminoacetic).
Glyoxal, 30%, dms., c.l., works. lb. .17½ - —
t.c.l., works ..... lb. .18 —
tanks, works ..... lb .17 —
Gold chloride, acid-brown, bots. .oz.22.00 -22.25
acid-yellow, bots ..... oz.20.00 -20.25
Gold of pleasure seed, bgs.....lb. .40 .41
Goldenseal root, bls.....lb. 2.90 - 3.50
powd., bxs. .....lb. 3.50 - 4.00
Gold-sodium chloride, photo, bots. oz.13.50 -14.00
USP IX, bots ..... oz.14.50 -15.00
Grains of paradise, bgs.....lb. .70 - .75
Graphite, imported, amorph., powd., bgs., dlvd lb. No prices.
crystalline, 88-90%, powd., bgs., ex whse lb. No prices.
90-92%, powd., bgs., ex whse. lb. No prices.
97%, powd., bgs., ex whse lb. No prices.
flake, No. 1, 90-95%, bgs., ctns., ex whse..lb. No prices.
No. 2, whse.....lb. No prices.
Grease, house, loose, dlvd.....lb. .05½ - —
White, choice, loose .....lb. .06½ - —
Wool (see Degras and Lanolin).
Yellow, loose .....lb. .05¾ - —
Green, brilliant, thioflavin, toner, molybdic, kgs., works..lb. 4.25 - 4.50
Tungstic, kgs., works .....lb. 4.25 - 4.50
16-20%, bbls., same basis lb. .38½ - —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. .32 - —
6-10%, bbls., same basis . lb. .33 - —
11-15%, bbls., same basis . lb. .34 - —
16-20%, bbls., same basis . lb. .34½ - —
21-25%, bbls., same basis . lb. .35¼ - —
26-30%, bbls., same basis . lb. .35¾ - —
31-35%, bbls., same basis . lb. .36¾ - —
36-40%, bbls., same basis . lb. .38½ - —
41-45%, bbls., same basis . lb. .40 - —
46-50%, bbls., same basis . lb. .41¾ - —
50% and over, bbls., same basis lb. .42¾ - —
reduced color, 5%, bbls., same basis lb. .12½ - —
6-10%, bbls., same basis . lb. .13¼ - —
11-13%, bbls., same basis . lb. .13¾ - —
14-16%, bbls., same basis . lb. .14½ - —
17-19%, bbls., same basis . lb. .14¾ - —
20-21%, bbls., same basis . lb. .15 - —
22-23%, bbls., same basis . lb. .15¼ - —
24-25%, bbls., same basis . lb. .15¼ - —
26-27%, bbls., same basis . lb. .15¾ - —
28-29%, bbls., same basis . lb. .16¼ - —
30-31%, bbls., same basis . lb. .17¼ - —
32-33%, bbls., same basis . lb. .18½ - —
34-35%, bbls., same basis . lb. .19½ - —
36-40%, bbls., same basis . lb. .22¼ - —
41-45%, bbls., same basis . lb. .24½ - —
46-50%, bbls., same basis . lb. .26 - —
51-55%, bbls., same basis . lb. .25¾ - —
56-60%, bbls., same basis . lb. .26¼ - —
61-65%, bbls., same basis . lb. .27¼ - —
66-70%, bbls., same basis . bl. .28½ - —

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., works..lb. .75 1.00
pure, bgs., frt. alld lb. .33 .40
Dyes (see Dyes, coaltar).
Malachite, thioflavin toner, molybdic, bbls., works..lb. 3.00 - —
Tungstic, bbls., works lb. 3.40 —
Paris (see P).
Phthalocyanin toner, bbls., works. lb. 4.40 5.00
Tungstated, brilliant, kgs.....lb. 3.00 4.00
Emerald, kgs .....lb. 2.60 —
Verdigris (see V).
Grindella robusta herb, bls.....lb. .24 .30
Guaiac resin, NF, cs.....lb. .60 .65
ordinary, cs. .....lb. .49 .51
Wood, bls .....lb. .35 .36
Guaiacol, cryst., tins .....lb No prices.
Liquid, NF, bots., cbys.....lb. 1.90 3.95
Carbonate, dms .....lb. 2.95 3.00
Guarana, powd., cs. .....lb. 1.50 - 1.75

Gum, accroides (see Gum, yacca).
Aloe (see A.).
Ammoniac, tears, cs.....lb. .90 - .95
Arabic, amber, sorts, bgs.....lb. .12½ - .13½
powdered, USP, bbls.....lb. .20½ - .21
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .50 - .70
Camphor (see C).
Copal, Congo, No. 1, bgs.....lb. .25 - .26
No. 2, bgs .....lb. .20 - .21
No. 3, bgs .....lb. .16 - .17
Manila, loba, B, bgs.....lb. No prices.
C, bgs. .....lb. .26 - .27
CBB, bgs. .....lb. .22 - .23
CNE, bgs. .....lb. No prices.
DBB, bgs. .....lb. .22 - .23
DK, bgs. .....lb. .13 - .14
dust, bgs. .....lb. No prices.
soft, MA, bgs .....lb. .14 - .15
WS, bgs. .....lb. No prices.
Philippine, pale, chips, bgs..lb. .19 - .21
nubs, bgs. .....lb. .23 - .25
seeds, bgs. .....lb. .14 - .15
sorts, bgs. .....lb. .16 - .17
Pontianak, chips, bgs.....lb. .14 - .16
nubs, bgs. .....lb. .25 - .27
Dammar, Batavia, A/D, bgs...lb. .28 - .30
A/E, bgs. .....lb. .23 - .24
dust, bgs. .....lb. .07½ - .08½
E, bgs. .....lb. .12½ - .13½
East India, batu, bold, bgs lb. .09 - .10
nubs and chips, bgs.....lb. .06 - .07
black, bold, bgs .....lb. .11 - .12
unscraped, bgs. .....lb. .09 - .10
nubs and chips, bgs.....lb. .09 - .10
pale, chips, bgs .....lb. .11 - .13
nubs, bgs. .....lb. .20 - .22
Singapore, No. 1, bgs.....lb. .28 - .30
No. 2, bgs .....lb. .20 - .21
No. 3, bgs. .....lb. No prices.
dust, bgs. .....lb. .09 - .10
seeds, bgs. .....lb. .12½ - .13½
Elemi, cns. .....lb. .21 - .22

Gum, ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .12½ - .18
wood-rosin type, dms., c.l., dlvd. Ill., Ind., etc lb. .12½ - .13
Euphorbium, cs. .....lb. .35 - .40
Galbanum, cs. .....lb. .75 - .80
Gamboge, pipe, cs .....lb. 1.15 - 1.25
powd., bbls .....lb 1.35 - 1.40
Ghatti, No. 2, bgs.....lb .35 - .37
No. 3, bgs .....lb .31 - .33
Guaiac (see Guaiac resin).
Karaya, powd., No. 1.....lb. .49 - .54
No. 2 .....lb. .45 - .46
No. 3 .....lb. .34 - .35
Kauri, bgs.....lb. .31½ - .32¾
Locust bean, powd., bgs .....lb .30 - .32
Mastic, cs. .....lb. 2.25 - 2.50
Myrrh, cs. .....lb. .30 - .35
Olibanum, siftings, cs.....lb. .12 - .13
tears, cs. .....lb. .16 - .30
Opium (see O).
Red (see Gum, yacca).
Rosin (see R).
Sandarac, cks. .....lb. 1.95 - 2.25
Scammony, cs .....lb. 1.50 1.55
Sterculia (see Gum, karaya).
Talha, bgs .....lb. .10 .11
Tragacanth, No. 1, cs.....lb. 2.75 3.00
No. 2, cs .....lb. 2.50 - 2.75
No. 3, cs .....lb. 1.75 - 2.00
powdered, USP, bbls.....lb 1.35 1.45
Yacca, bgs. .....lb. .05½ - .06½
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald ton.22.63 - —
Harlem river, N. Y., frt. equald ton.28.23 - —

Glue, Hide—Gypsum, Stucco

Gypsum, Keane's cement, paper bgs., c.l., Medicine Lodge, Kan., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald..ton.30.65 - —
Southard, Okla., frt. equald ton.17.00 - —
Sweetwater, Tex., frt. equald ton.21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald ..ton.12.50 - —
Blue Rapids, Kans., frt. equald ton.10.50 —
Harlem river, N. Y., frt. equald..ton.12.00 —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald ton.18.00 —
Saltville, Va., frt. equald ton. 9.00 —
Southard, Okla., frt. equald ton.12.50 - —
Sweetwater, Tex., frt. equald ton.12.50 —
Stucco, paper bgs., Akron, N. Y., frt. equald ton. 8.00 - —
Blue Rapids, Kans., frt. equald..ton. 8.00 - —
Clarence Center, N. Y., frt. equald..ton. 8.00 - —
Fort Dodge, Iowa, frt. equald ton. 8.00 - —
Gypsum, Ohio, frt. equald. ton. 8.00 - —
Grand Rapids, Mich., frt. equald..ton. 8.00 - —
Harlem river, N. Y., frt. equald..ton. 8.00 - —
National City, Mich., frt. equald..ton. 8.00 - —
New Brighton, N. Y., frt. equald..ton. 8.00 - —

WHERE DID IT GO?
Down the sewer — rejected.

WHY?
Unreliable chemicals spoiled it.

Even when only one batch in ten goes sour, your cost on the other nine goes up at least 11%. That's why so many process industries have found it pays to use Mallinckrodt *Fine Chemicals*. Their unwavering purity makes it far easier to turn out uniformly better batches . . . eliminate rejects.

RESULT:
Often your spoilage savings enable you to maintain *higher* quality at *lower* long-run cost. May we give you the benefit of our long experience in solving quality control problems?

• better batches *begin* with MALLINCKRODT FINE CHEMICALS

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CHICAGO • CINCINNATI • CLEVELAND • LOS ANGELES • MONTREAL • PHILADELPHIA • SAN FRANCISCO
Manufacturers of Medicinal, Photographic, Analytical and Industrial Fine Chemicals

Gypsum—Mesityl Oxide

Gypsum, stucco, Plasterco, Ga., frt. equald ton. 8.00 - —
Portsmouth, N. H., frt. equald ton. 8.00 - —
Roton, Texas, frt. equald ton. 8.00 - —
Saltville, Va., frt. equald. ton. 9.00 - —
Southard, Okla., frt. equald ton. 8.00 - —
Sweetwater, Texas, frt. equald ton. 8.00 - —
Terra alba, paper bags, c.l., Harlem River, N.Y. works ton.22.50 - —
New Brighton, N. Y., works ton.21.00 - —

H

Hawthorn berries, bgs. lb. .39 - .45
Hehotropin, cryst., cns. lb. 2.85 - 3.05
Hellebore root, dom., green, bls. lb. .80 - .90
imp., black, whole, bls. lb. .20 - .25
ground, bxs. lb. .25 - .30
powder, bxs. lb. .27 - .32
white, whole, bls. lb. .30 - .40
powder, bxs. lb. .35 - .45
Helonias root, bls. lb. 1.65 - 1.75
Hematine extract, cryst., No. 0, bbls., l.c.l. lb. .45½ - —
No. 1, bbls., l.c.l. lb. .44½ - —
No. 1A, bbls., l.c.l. lb. .41½ - —
No. 2, bbls., l.c.l. lb. .40½ - —
No. 3, bbls., l.c.l. lb. .38½ - —
No. 4, bbls., l.c.l. lb. .36½ - —
No. 5, bbls., l.c.l. lb. .34½ - —
paste, No. 1, bbls., l.c.l. lb. .19 - —
No. 2, bbls., l.c.l. lb. .18 - —
No. 3, bbls., l.c.l. lb. .17 - —
No. 4, (red), bbls., l.c.l. lb. .12½ - —
Hemlock bark extract, 25% tannin, bbls., c.l., works lb. No stocks.
tanks, works lb. No stocks.
Henbane leaves, bls. lb. .30 - .40
Henna leaves, bls. lb. .23 - .25
powd., bbls., bgs. lb. .27 - .29
Heptane, industrial, Bayonne, N. J., tanks gal. .16 - —
group 3, tanks gal. .12½ - .13½
Hesperidin methylchalcone, works. lb.50.00 - —
Hexalin (see Cyclohexanol)
Hexamethylenetetramine, tech., bgs. c.l., Perth Amboy or N.Y.C. lb. .22 - —
l.c.l., same basis lb. .22½ - —
bbls., c.l., same basis lb. .24 - —
l.c.l., same basis lb. .24½ - —
Hexamethylenetetramine, USP, dms., 500 lbs. or more, same basis lb. .38½ - —
smaller lots, same basis lb. .39½ - —
Hexamine (see Hexamethylene tetramine)
Hexane, industrial, group 3, tanks, gal. .13½ - .14½
Bayonne, N. J., tanks gal. .16 - —
Hexanol, normal, dms., c.l., works. lb. .30½ - —
l.c.l., works lb. .31 - —
tanks, works lb. .29 - —
Hexyleneglycol, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .14½ - —
tanks, dlvd lb. .12½ - —
Hexylmethacrylate, normal, dms., less than truckload, works. lb. .71 - —
Hexylresorcinol, USP, 50 lbs. up, frt. alld lb.17.00 - —
works lb.15.00 -17.00
smaller lots, frt. alld lb.18.00 - —
works lb.18.00 -20.00
Histamine diphosphate, USP, bots kilo.375.00 - —
Histidine hydrochloride—laevo, NF, fib. dms., 50 kilo lots, works kilo.100.00 -120.00
1-5 kilos, works kilo.110.00 -130.00
Homatropine hydrobromide, USP, bots oz.15.00 -16.00
Hydrochloride, bots oz.20.00 -22.00
Methylbromide, NF oz.13.00 -16.25
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago unit-ton. 7.50 - —
Hops, NF, bls. lb .40 - .45
Horehound, bls. lb. .19 - .20
Hydrangea root, bls. lb. .14 - .17
Hydrastine, bots. oz.53.50 -53.80
Hydrochloride, NF oz.29.50 -36.00
Sulphate, bots. oz.53.50 -53.80
Hydrastinine, 10-grain bots. bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. sms., works lb. .30 - .40
Hydrogen peroxide, USP, bbls lb. .03¾ - .05
27½%, cbys., E. of Miss. or W. coast via Panama Canal lb. .17½ - .19¼
35%, cbys., same basis lb. .23½ - —
dms., c.l., same basis lb. .20½ - —
l.c.l., same basis lb. .21½ - —
tanks lb. .19¾ - —
Hydroquinone, photographic, bbls., dms lb. .90 - —
tech., dms lb. .70 - —
Hydroxycitronellal, cns. lb 5.35 - 7.80
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots. oz.15.75 -16.00
Hydrobromide, bots. lb.16.50 -18.00
Sulphate, bots. oz.13.50 -14.00
Hypernic extract, cryst., No. 1, bbls., l.c.l. lb. .56 - —
No. 2, bbls., l.c.l. lb. .48 - —
liquid, No. 1, bbls., l.c.l. lb. .50 - —
No. 2, bbls., l.c.l. lb. .25 - —
solid, No. 1, bxs., l.c.l. lb. .44 - —
Hyssop herb, bgs. lb. .35 - .45
Leaves, bgs. lb. .45 - .50

I

Iceland moss, bgs. lb. .35 - .40
Ichthammol, F, dms. lb. .60 - .75
Indian red (see Red, Indian).
Indigo, nat., chests lb. 2.14 - 2.16
synth., paste, bots. lb. .23 - —
powd., bbls lb. 1.03 - —
Indol, CP, bots lb.17.00 -19.00
Inositol, dms., dlvd lb. 4.90 - —
tins, dlvd lb. 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs. lb. 1.52 - 1.729
resubl., USP., bots., jars lb. 2.30 - 2.41
Iodochlorohydroxyquinolin, NF, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs lb. 4.45 - 4.60
Ionone, alpha, cns. lb. 4.40 - 6.50
beta, cns. lb. 7.05 - 6.50
Ipecac root, bgs. lb. 4.30 - 5.00
powd., bgs. lb. 4.50 - 5.50
Irish moss, bleached, prime, bls. lb. .16 - .18
Iron acetate, liquor, 28° bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾ - —
solut., USP IX, cbys. lb. .16 - —
djns. lb. .17 - —
Cacodylate, NF, bots lb.13.50 -14.50
Chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs. 5.75 - —
l.c.l., works 100 lbs. 6.50 - 7.50
cryst., tech., c.l., bbls., works. 100 lbs. 5.00 - 6.00
l.c.l., bbls., works 100 lbs. 5.50 - 8.00
Iron, chloride, USP, dms., works lb. solut., 42 Be, 100% basis, tanks, works 100 lbs. 3.45 - —
Citrate, gran., dms. lb. .77 - .80
Gluconate, NF, dms. lb. .83 - .95
Glycerophosphate, N.F., powd. lb. 4.25 - 4.35
Hypophosphite, NF, dms. lb. 2.80 - —
Iodide, bots. lb. 3.66 - 3.73
Naphthenate, liq., 6% Fe, dms., frt. alld. lb. .21¼ - .21¾
Oxalate, gran., dms. lb. .83 - .85
Phosphate, soluble, NF, gran., cs. lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., dms. lb. .69 - .72
Reduced (see Iron by hydrogen).
Resinate, 7.4% Fe, dms., frt. alld. lb. .53 - —
Stearate, dms., c.l. lb. .34 - —
ton lots lb. .35 - —
less ton lots lb. .36 - —
Sulphate, partially hydrated, bgs., c.l., works ton.26.50 - —
l.c.l., works ton.29.50 - —
ferrous, tech. (see Copperas).
USP, cryst., bbls., dms lb. .09¼ - .10
Iron by hydrogen, kgs. lb. .80 - .85
Iron-ammonium citrate, green, NF, gran., dms lb .55 - .58
brown, USP, gran., dms lb. .55 - .58
Oxalate, dms. lb. .25½ - .28½
Iron-potassium oxalate fine gran., dms. lb. .30½ - .33½
Iron-sodium oxalate, fine gran., dms lb. .25½ - .28½
Isoborneol, cns. lb. .84 - .93
Isobornyl acetate, cns lb. .97 1.10
Thiocyanoacetate, dms., c.l., works. gal. 3.85 —
l.c.l., works gal. 3.85 4.05
tanks, works gal. 4.23 —
Isobutyl acetate, cns. lb. .82 1.28
Methacrylate, dms., works lb. .60 —
Propionate, cns. lb. No prices.
Isobutyraldehyde, dms., works lb. .50 .53
Isoeugenol, cns. lb. 3.10 3.40
Isoleucine, dextro-laevo, with al-loisoleucine, dms., works lb.26.00 -35.00
Isopentane, dms., works lb. .45 .55
Isophorone, dms., c.l., works lb. .22½ - —
l.c.l., works lb. .23 - —
tanks, works lb. .21 - —
Isopropanol (see Acohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld. lb. .10½ - —
l.c.l., same basis lb. .11 - .11¼
tanks, same basis lb. .09 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether (see Ether, isopropyl).
Phenylcarbamate (see IPC).
Isopropylamine, dms., c.l., frt. alld. lb. .24 - —
l.c.l., same basis lb. .25 - —
tanks, same basis lb. .22½ - —
Isoquinoline, dms., c.l., works lb. .20 - —
l.c.l., works lb. .40 - —

J

Jaborandi leaves, bls. lb. .15 - .20
Jalap root, NF, bls. lb. .43 - .45
powd., bbls., bxs. lb. .48 - .50
Resin, NF, powd., bxs. lb. 6.20 - 6.60
Juniper berries, bgs. lb. .08 - .18
Tar, USP, dms. lb. .40 - .65

K

Kamala, powd., cns lb. .45 - .50
Kaolin (see China clay).
Kava kava root, bls lb .25 - .30
Kerosene, at refinery, Ark., 42-44 specific gravity, w.w., tanks. gal. .08625- —
Bayonne, 41-43 s.g., w.w., tanks. gal. .089 - —
California, 40-43 s.g., w.w., tanks gal. .121 - .156
Gulf ports, 41-43 s.g., w.w., tanks. gal. .086 - .0925
Okla.-Tex., 41-43, s.g., w w. tanks. gal. .085 - .09
Penn., Western, 45 s.g., w.w., tanks gal. .095 - .10
Kola nuts, bgs. lb. 08 - .10
Kyanite, imp., low iron content, 10-mesh, whse ton.85.00 -95.00
calcined, grain, 10-mesh, whse ton.95.00 -105.00

L

Lady slipper root, bls lb. 1.50 - 1.75
Lanolin, anhyd., cosmetic, dms., works lb. .30 - .32
pharmaceutical, USP, dms., works lb. .28 - .31
hydrous lb. .27 - .29
Lard, cash, frcs., Chicago lb. .1060- —
Larkspur seed, bgs. lb. .30 - .35
Laurel berries, bls lb .25 - .26
Leaves, Greek, bls. lb. .08 - .08½
Portuguese, bls. lb. .11¼ - .11½
Turkish, bls. lb. No stocks.
Yugoslavian, bls. lb. .10 - .10½
Lauryl methacrylate, normal, dms., less than truckload, works lb. 1.00 - —
Lavender flowers, medium, bls lb. .55 .60
ordinary, bls. lb. .16 - .20
select, bls lb .60 .65
Lead acetate, white, crystals, bbls., lb. .19 - —
gran., bbls. lb. .19¾ - —
powd., bbls. lb. .19¾ - —
USP, cryst., dms lb. .20 - —
gran., powd., dms lb. .20¾ - —
Arsenate, dealers, basic powder, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or over. lb. .25 - .27
l.c.l., frt. alld lb. .26 - —
1-lb. bgs., c.l., frt. alld lb. .33 - .38
l.c.l., frt. alld lb. .34 - .39
Lead arsenate prices are works or whse. basis frt. alld. on purchases totaling $75.00 or more to dest. East.
Blue basic sulphate, bbls., c.l., shipt. point, frt. alld lb. .12½ - —
l.c.l., works lb. .13½ - —
Carbonate (see Lead, white).
Chloride, dms lb. .39 - —
Iodide, NF V, jars lb. 3.80 - —
Linoleate, liq., 13% Pb, dms., frt alld lb .29¼ - —
Metal, pigs, prime, N. Y. lb. .10½ - —
St. Louis lb. .1030- —
Metallic paste, dms., 30,000-40,000 lbs., works lb .28 - —
10,000-20,000 lbs., same basis lb. .28½ - —
2,000-10,000 lbs., same basis lb. .29 - —
100 to 2,000 lbs., same basis. lb. .29½ - —
Prices ex whse, Jersey City, N. J., 4½c. per pound hgher
Naphthenate, liquid, 16% pb, dms., dlvd lb. .13½ - —
24% Pb, dms., dlvd lb. .21¼ - —
30% Pb, dms., dlvd lb. .25¾ - —
Lead, nitrate, bbls., c.l. lb. .19 - —
l.c.l. lb. .19¼ - —
Oleate, fused, bbls lb. .24 - —
Orthosilicate gel, 50% PbO, dms., works lb. .29½ - —
60% PbO, dms., works lb. .28 - —
Peroxide, powd., tech., bbls lb. .36 - .39
Phthalate, dibasic, dms., works lb. .37½ - —
Red, 95%, Pb_3O_4, or less, bbls., c.l., ship't point, frt. alld. lb. .13¼ - —
l.c.l., same basis lb. .14¼ - —
97%, Pb_3O_4, bbls., c.l., same basis lb. .13½ - —
l.c.l., same basis lb. .14½ - —
95%, Pb_3O_4, bbls., c.l., same basis lb. .13¾ - —
l.c.l., same basis lb. .14¾ - —
Resinate, precip., dms., dlvd lb. .55 - —
Salicylate, normal, dms., works. lb. .41¾ - —
Silicate, bgs., l.c.l., ship't pt., frt. alld lb. .14¾ - —
Stearate, dibasic, dms., works lb. .50¼ - —
precip., bbls., c.l. lb. .36 - —
ton lots lb. .37 - —
less ton lots lb. .38 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
tribasic, dms., works lb. .24¼ - —
Tallate, liquid, 16% Pb, dms. lb. .13¼ - —
solid, 30% Pb, dms lb. .20½ - —
White, basic carbonate, bgs., c.l., ship't point, frt. alld lb. .14 - —
l.c.l., same basis lb. .15 - —
basic silicate, bgs., c.l., ship't point, frt. alld lb. .13½ - .15½
l.c.l., same basis lb. .14⅝ - .16½
basic sulphate, bgs., c.l., ship't point, frt. alld lb. .12½ - —
l.c.l., same basis lb. .13½ - —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works lb. .18 - —
l.c.l., same basis lb. .18½ - —
unbleached, c.l., same basis lb. .15 - —
l.c.l., same basis lb. .17½ - —
Lemon peel, bls lb. .20 - .25
Leucine, dextro-laevo, dms., works lb.26.00 -35.00
Licorice extract, mass, cns lb. .40 - .45
powd., bbls. lb. .55 - —
Root, bls lb. .08 - .09
5-lb. bundles, cs lb. .40 - .45
powd., bbls lb. .11 - .13
Lignin extract, tanning grade, bgs., c.l., works lb. .05¼ - .06¾
Lime, agricultural, bgs., works ton.13.00 -13.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass. ton.10.00 - —
Annville, Pa. ton.10.50 - —
Bellefonte, Pa. ton.10.50 - —
Buffalo, N. Y. ton.10.00 - —
Carey, Ohio ton. 7.00 - —
Cedar Hallow, Pa. ton.10.50 - —
Farnams, Mass. ton.14.00 - —
Gibsonburg, Ohio ton. 8.50 - —
Hannibal, Mo ton. 7.50 - —
Keystone, Ala ton. 9.75 - —
Knoxville, Tenn ton. 9.75 - —
Limedale, Ark ton. 9.00 - —
Longview, Ala ton. 9.75 - —
Martinsburg, W. Va. ton.10.00 - —
Menominee, Mich ton. 8.00 - —
Mitchell, Ind ton. 7.50 - —
Rockland, Maine ton. 9.00 - —
Scioto, Ohio ton. 7.50 - —
Sherwood, Tenn ton.10.00 - —
Sherwood, Wis. ton. 8.50 - —
Woodville, Ohio ton. 9.50 - —
York, Pa. ton.10.50 - —
Hydrated, paper bgs., Adams, Mass. ton.11.50 - —
Annville, Pa ton.13.50 - —
Bellefonte, Pa. ton.13.50 - —
Buffalo, N. Y. ton.13.50 - —
Carey, Ohio ton. 9.00 - —
Cedar Hollow, Pa. ton.13.50 - —
Engle, W. Va. ton.13.00 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton. 9.50 - —
Hannibal, Mo ton. 9.50 - —
Keystone, Ala ton.13.00 - —
Knoxville, Tenn ton.12.25 - —
Limedale, Ark ton.10.50 - —
Longview, Ala ton.13.00 - —
Manistique, Mich ton. 9.50 - —
Marblehead, Ohio ton.10.50 - —
Mitchell, Ind ton.10.00 - —
Petoskey, Mich ton.10.00 - —
Port Island, Mich. ton. 9.00 - —
Rapid City, S. Dak. ton.12.00 - —
Rockland, Maine ton. 9.00 - —
Scioto, Ohio ton. 9.00 - —
Sherwood, Tenn ton.13.00 - —
Sherwood, Wis. ton.10.00 - —
Springfield, Mo. ton. 9.00 - —
Woodyville, Ohio ton. 8.50 - —
York, Pa ton.13.50 - —
Spray, paper bgs., Adams, Mass. ton.11.70 - —
Annville, Pa ton.13.50 - —
Bellefonte, Pa ton.13.50 - —
Carey, Ohio ton.11.00 - —
Engle, W. Va ton.13.00 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton.10.00 - —
Marblehead, Ohio ton.10.00 - —
Rockland, Me. ton.10.00 - —
Scioto, Ohio ton.10.00 - —
Woodville, Ohio ton.10.00 - —
York, Pa ton.13.50 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bgs., works ton. 3.50 4.00
Linalool, ex bois de rose lb. 5.05 - 5.15
ex lignaloe wood lb 6.50 7.00
Linalyl acetate, 90-92%, bots lb. 5.20 - 5.25
96-98%, bots. lb. 6.05 - —
ex petitgrain, bots lb 4.25 6.00
Lindane, 25%, cns., works lb. 3.00 - 3.05
dms., works lb 2.95 —
Linden flowers with leaves, bls lb. .22 .25
without leaves, bls lb. 22 .28
Linseed meal, 34% bulk, Midwest mills ton.64.00 - —
Litharge, com'l, powd., bbls., c.l., ship't point, frt. alld lb. .12¼ - —
l.c.l., same basis lb. .13¼ - —
Lithium benzoate, dms lb 1.65 - —
Bromide, NF, bbls., works, frt. equald lb 1.90 —
Carbonate, NF, bbls., kgs lb 1.10 1.18
Chloride, cryst., dms lb. .93 - —
Citrate, NF, bbls., dms., kgs lb 1.25 - 1.40
Fluoride, bbls lb 1.90 - 2.00
Hydroxide, dms lb 1.00 - 1.25
Salicylate, dms. lb 1.62 1.70
Lithopone, ordinary, bgs., c.l., ship't point lb. .06¼ —
l.c.l., same basis lb. .06½ - .06⅝
Titanated (high-strength), bgs., c.l. lb. .08¼ - —
smaller lots lb. .08½ - —
Lithopone prices, Pacific Coast, ¾c. per lb higher.
Liverwort leaves, bls lb .75 .80
Lobelia herb, bls. lb. .85 - .90
leaves, NF lb. .90 - .95
Lobeline sulphate, bots., works oz.34.00 -38.00
Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .38½ - —
No. 2, bbls., l.c.l. lb. .36½ - —
liquid, No. 1, bbls., l.c.l. lb. .18½ - —
No. 2, bbls., l.c.l. lb. .17½ - —
No. 3, bbls., l.c.l. lb .17 - —
No. 4, bbls., l.c.l. lb. .16½ - —
solid, No. 1, bxs., l.c.l. lb. .33 - —
No. 2, bxs., l.c.l. lb. .31 - —
No. 3, bxs., l.c.l. lb. .28½ - —
No. 4, bxs., l.c.l. lb. .28 - —
No. 5, bxs., l.c.l. lb. .26½ - —
No. 6, bxs., l.c.l. lb. .44½ - .49½
Lovage root, imp., bls. lb. 1.00 - 1.10
Lupulin, tins lb. 1.95 - 2.00
Lycopodium, cs. lb. 1.30 - 1.50
Lysine hydrochloride, dextro-laevo. kilo.145.00 -149.00

M

Mace, Amboyna, bls lb. .73 - .74
Banda, No. 1, bls lb 1.05 Nom.
Siauw, No. 1, bbls. lb. .90 - .92
West Indian, bls lb. .79 - .80
broken, bls lb. .75 - .76
Madder, Dutch, bgs. lb. .29 .32
Magnesia, calcined, tech., ctns., works lb. .32 —
synth., rubber grade, ctns., works lb. .29 - .31
USP, light ctns lb. .34 - —
heavy, bbls lb. .36 - —
Magnesium arsenate, bgs., cans, works lb. .20 - .30
Bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.s., frt. lb. .09 - —
t.c.l., frt. alld. lb. .10 - —
bbls., c.l., frt. equald lb. .10¼ - —
l.c.l., frt. alld. lb. .11¼ - —
kgs., c.l., frt. equald lb .11½ - —
l.c.l., frt. alld. lb. .12½ - —
USP, bgs., l.c.l., frt. equald lb. .10¾ - —
t.c.l., frt. alld. lb .11¾ - —
bbls., c.l., frt. equald lb. .11¼ - —
l.c.l., frt. alld. lb. .12¼ - —
kgs., c.l., frt. equald lb. .12½ - —
l.c.l., frt. alld. lb. .13½ - —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations.
Chloride, anhyd., dms., works lb. .12¼ - —
flake, bbls., c.l., works ton.40.00 - —
l.c.l., works ton.44.00 -46.00
Gluconate, dms., cns lb. 1.86 - 1.93
Glycerophosphate, dms., works lb. 4.85 4.95
Hydroxide, NF, medicinal, bbls., dms., kgs lb. .29 - .30
Hypophosphite, dms lb. 1.60 - —
Laurate, bbls lb. .46 - .47
Metal, 99.8% ingots, cs., works lb. .20½ - —
sticks, cs., works lb. .34 - .38
Oleate, fused, bbls lb. .31 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .09 - .10
Stearate, ctns., c.l. lb. .35 - —
smaller lots lb. .36 - .37
Sulphate (see Epsom salt).
Trisilicate, USP, dms., 1,000-lb. lots lb. .43 - —
100-lb. lots lb. .50 - —
Magnesite, chemical grade, bgs., c.l., mines, Calif ton.67.50 - —
dead-burnt, bulk, c.l., Chewalah, Wash ton.30.50 - —
Maleic anhydride, dms., c.l., dlvd., l.c.l., dlvd. lb. .30 - —
lb. .31 - —
Prices on maleic anhydride West of Rockies 1½c. higher.
Malva flowers, black, bls. lb. 1.00 - 1.25
Blue, bls. lb .95 1.10
Leaves, bls. lb. .30 - .35
Manaca root, bls lb .49 .50
Mandrake root, bls. lb. .40 - .45
Manganese acetate, bbls. lb .32 —
Arsenate, bgs. lb. .12 - .12½
Borate, tech., bbls lb .21 —
Carbonate, bbls., works lb. .21 - —
Chloride, anhyd., dms., works lb. .20 - .22
Dioxide, African, battery, 84-87%, bgs., 100 tons, works ton.73.00 - —
smaller lots, works ton.74.00 -94.00
Gluconate, dms., cns lb. 1.86 - 1.93
Glycerophosphate, NF, fib. dms lb. 4.15 4.25
Hydrate, bbls., works lb. .34 - —
Hypophosphite, NF, dms lb. 2.00 —
Linoleate, liquid, 4.35% Mn, dms. lb. .39¼ - —
solid, precip., 8.2% Mn, bbls., lb. .41½ - —
Metal, cs., dlvd. East lb. .30 - .32
Naphthenate, liquid, 6% Mn, dms., frt. alld lb. .22¾ - .23¼
Oleate, precip, bbls lb. .33½ - —
Resinate, fused, 3½% Mn, dms, precip., dms lb. .21½ - —
Stearate, ctns., c.l lb. .35 - —
smaller lots lb. .36 - .37
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E. ton.60.00 - —
t.c.l., dlvd. S. E. ton.67.00 - —
feed grade, 80%, bgs., dlvd. S. E. lb. .05¼ - .07
75%, bgs. c.l., dlvd. S. E. ton.68.50 - —
t.c.l., dlvd. S. E. ton.75.50 - —
Tallate, liquid, 4% Mn, dms lb. No prices.
solid, 8% Mn, dms lb. No prices.
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock ton. No stocks.
So. American, 30-32% tannin, c.l., ex dock ton.62.00 -63.00
Manna, flake, large, cs. lb. 1.10 - 1.35
small, cs. lb. .85 - 1.00
Mannitol, com'l, dms., works lb. .40 - .43
reagent, 50-lb. dms., works lb. .85 - —
Marjoram, Argentine, bls. lb. .14 Nom.
Bohemian, bls. lb. .47 - .47½
Chilean, bls. lb. .50 - .51
French, bls. lb. .55 - .58
Matico leaves, bls. lb. .25 - .33
Melamine, bgs., ton lots, works lb. .33 - —
500 lbs. or more, works lb. .33½ - —
less 500 lbs., works lb. .38½ - —
Menadione, USP, bots gram .06½ - —
Menthol, natural, USP lb.10.15 -10.30
synthetic, USP, racemic, cns lb. 7.25 Nom.
Menthyl salicylate, tins lb. 4.00 - 4.25
Mercaptobenzo thiazole, 50-lb. bgs., 150-lb. containers, ton lots, works, frt. alld., dms., kgs lb. .29 - .30
less ton lots, same basis lb. .29 - —
Mercury, ammoniated (see White precipitate).
Bichloride (see Corrosive sublimate).
Bisulphate, dms. lb. 2.13 - 2.18
Chloride (see Calomel).
Cyanide, NF, cryst., powd., fib. dms lb. 3.27 - 3.32
Iodide, red, NF, dms lb. 4.07 - —
Yellow, NF, fib. dms lb. 4.22 - —
Meta (see Quicksilver).
Oxide, red, NF (see Red precipitate).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms. lb. 2.44 - 2.46
Mesityl oxide, dms., c.l., dlvd lb. .13 —
l.c.l., dlvd lb. .13½ - —
tanks, dlvd lb. .11½ - —

The *new* Purelube

Pure Oil EXPERIENCE GIVES IT *Quality*

Tri-Sure CLOSURES GIVE IT *Protection*

TO PRODUCE "Purelube", its new premium quality motor oil, the Pure Oil Company built a multi-million dollar plant near Beaumont, Texas, embodying the most advanced refining facilities.

And to give "Purelube" quality the finest *protection* in transit — protection from leakage, seepage, pilferage and substitution—every drum is equipped with Tri-Sure Closures*.

Just as Pure Oil's years of refining experience are applied to the development of every product, Pure Oil's long experience with Tri-Sure Closures — going back to 1936 — has established its policy of *Tri-Sure protection* for every drum.

The experience of America's leading petroleum and chemical companies will confirm *your* judgment in giving *your* product the protection of the Tri-Sure Flange, Plug and Seal. On your next drum order, *play safe* with your product and reputation by specifying "equipped with Tri-Sure Closures".

Tri-Sure
Reg. U. S. Pat. Off.
CLOSURES

*The "Tri-Sure" Trademark is a mark of reliability backed by 27 years serving industry. It tells your customers that genuine Tri-Sure Flanges (inserted with genuine Tri-Sure dies), Plugs and Seals have been used.

AMERICAN FLANGE & MANUFACTURING CO. INC., 30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.
TRI-SURE PRODUCTS LIMITED, ST. CATHARINES, ONTARIO, CANADA

Metaldehyde—Myrobalans

Metaldehyde, dms., works lb. .78 - 1.00
Metachlorantilin, dms., works lb. .75 - —
Metacresol, 98%, dms., c.l., works lb. .55 - .80
l.c.l., works lb. .56 - —
80-82%, dms., works lb. .35 - —
70-75%, dms., works lb. .30 - —
Metaparaisopropylphenol, dms., c.l. lb. .21 - —
l.c.l. lb. .22 - —
tanks lb. .20 - —
Metanitroparatoluidin, bbls. lb. 1.28 - —
Metaphenylenediamine, kgs. lb. .76 - —
Metatoluidine, bbls., works lb. .50 - —
Metatolylenediamine, kgs. lb. .85 - —
Methanol, natural, dms., c.l., frt. alld gal. .58 - —
l.c.l., frt. alld. gal. .61 - —
tanks, frt. alld. gal. .50 - —

Prices on natural methanol W of Miss. 3c. higher.

synthetic, zone 1, dms., c.l., frt. alld. gal. .36 - —
l.c.l., frt. alld. gal. .41 - —
tanks, frt. alld. gal. .26 - —
zone 2, dms., c.l., frt. alld. gal. .43½- .45
l.c.l., ex whse. gal. .47½- —
tanks, frt. alld. gal. .29½- .31

Synthetic methanol zones are: Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).
Methionine, dextro-laevo, fib. dms., frt. alld., 50-lb. or more lb. 4.55 - —
feed grade lb. 3.00 - —
Methoxychlor, dealers, dms., cs., works lb. .65 - —
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1 lb. .17 - —
l.c.l., same basis lb. .17½- —
hydrogenated, non-ret. dms., c.l., dlvd., zone 1 lb. .17¼- —
l.c.l., same basis lb. .17¾- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio., Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn., St. Louis, Mo., Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetoacetate, dms., c.l., dlvd lb. .53 - —
l.c.l., dlvd lb. .54 - —
tanks, dlvd lb. .51½- —

Methyl acetoacetate prices frt. alld. W., ½c. higher.

Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld. gal. .60 - —
l.c.l., same basis gal. .71 - —

Natural methyl acetone group A prices W. of Miss. 3c. per gal. higher.

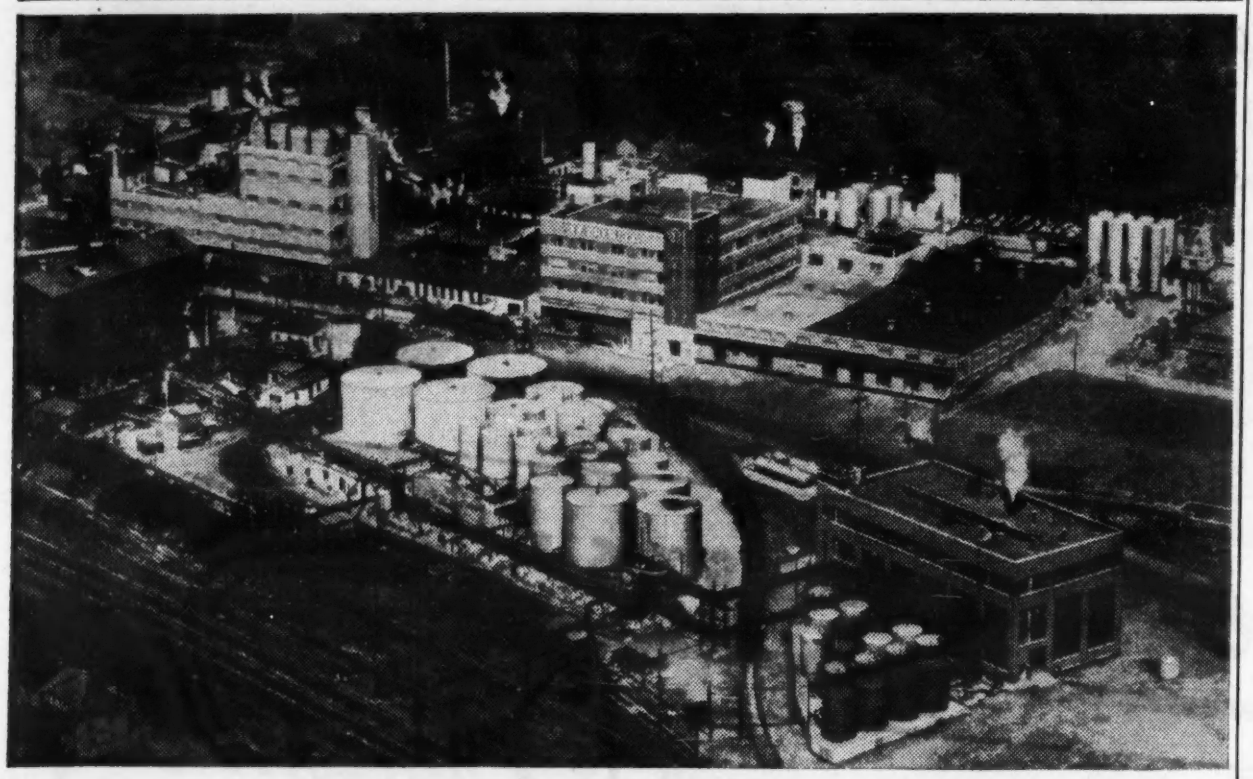
Group B, dms., incl., E. Miss., frt. alld., any quantity gal. .50 - —
synthetic, dms., c.l., works, frt. alld. E gal. .53 - —
frt. alld. W gal. .57 - —
l.c.l., works, frt. alld. E gal. .56½- —
frt. alld. W gal. .60½- —
tanks, works, frt. alld. E gal. .43½- —
frt. alld. W gal. .47 - —

Methyl acetone, synth., East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.

Methyl acrylate, dms., c.l., and truckload, works lb. .50 - —
less than truckload, works lb. .50½- —
Alcohol (see Methanol).
Anthranilate, 100 lbs. or more lb. 2.10 - 2.90
extra lb. 4.00 - 4.40
Benzoate, cns. lb. .55 - 1.20
Bromide, dealers, cns. lb. .69 - .71
cyls. lb. .60 - .78
Chloride, indust., cyl., works lb. .17 - —
tanks, multi-unit, works lb. .13 - —
single-unit works lb. .10½- —
refrigerator mfrs., cyls., dlvd. lb. .37 - —
other consumers or service men, cyls., dlvd lb. .42 - —
Cinnamate, cns. lb. 1.48 - 1.65
Formate, refd., dms. lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .08 - —
tanks, works lb. .07 - —
Heptin carbonate, bots. lb. 36.00 - 58.00
Iodide, bots., works lb. 3.65 - 4.78
cbys., works lb. 2.80 - 3.00
Lactate, dms., l.c.l., works lb. .35 - —
Methacrylate, dms., c.l. and truckload, works lb. .44½- —
less than truckload, works lb. .45 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib. dms. lb. 1.90 - 2.00
Roseanilin chloride, USP, bots. lb. 5.15 - 5.30
Salicylate, USP, dms., 500 lbs. lb. .42 - —
25-50 lbs. lb. .47 - —
Testosterone, USP, 100 gms. gm. 3.50 - —
Methylal, refined, 95%, dms., c.l., works lb. .11 - —
l.c.l., works lb. .12 - —
tanks, works lb. .09 - —
Methylamyl acetate, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .13½- —
tanks, dlvd lb. .11½- —
Ketone, dms., works lb. .95 - —
Methylcellulose, special vis., 4,000 cps.), fib. cns., c.l., frt. alld. lb. .68 - —
2,000 lbs. and more, same basis lb. .70 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 .80
standard vis., (15-1,500 cps.), fib. cns., c.l., frt. alld lb. .62 - —
2,000 lbs. and more, same basis lb. .63 —
smaller lots, frt. alld. on 100 lbs. lb. .68 .19
Methylene blue, USP, 100-lb. lots, kgs., frt. adjusted lb. 2.87 - —
smaller lots, kgs., same basis lb. 3.03 3.29
Chloride, indust., dms., c.l., dlvd. E lb. .12½ —
l.c.l., dlvd E lb. .13½- —
tanks, dlvd. E lb. .11½- —
Methylethyl ketone, dms., c.l., dlvd lb. .10½- —
l.c.l., dlvd lb. .11 - —
tanks, dlvd lb. .09 - —
Methylhexyl ketone, tech., dms., works lb. .60 —
Methylionone, A, cns. lb. 6.55 8.80
D, cns lb. 7.50 9.55
prime, cns lb. 4.55 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Ketone, dms., c.l., dlvd lb. .12½- —
l.c.l., dlvd lb. .13 - —
tanks, dlvd lb. .11 - —
Methylnaphthyl ketone, cns. lb. 3.00 3.75
Methylparaben (see Methylparahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylthionine chloride (see Methylene blue).
Mica dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .03½- —
roofing, 20 to 80 mesh, works lb. .03½- —
wet-grd., biotite, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l., ex whse., or frt. alld. E lb. .06½- —
extra fine, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l., ex whse. or frt. alld. E lb. .06½- —
paint or incq., bgs., c.l., works, frt. alld., E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —
rubber, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —
wallpaper, bgs., c.l., works, frt. alld. E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —
white, extra fine, bgs., c.l., works, frt. alld. E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 - —

Mica, wet-grd., W. of Miss. R., ½c. higher, W. of Rockies, 1c. higher

Milk powder, skimmed, roller, bbls., c.l. lb. .10½- .10⅝
spray, bbls., c.l. lb. .12¼- .12¾
Whole, roller, bbls., c.l. lb. .28 .33
spray, bbls., c.l. lb. .28½- .35½
Sugar, crude, bgs., c.l., works lb. .16½- —
edible, bbls., works, 30,000-lb. lots lb. .22 - —
2,000-lb. lots lb. .22¾- —
200-1,800-lb. lots lb. .23¼- —
USP, bbls., works 30,000-lb. lots lb. .26 - —
2,000-lb. lots lb. .26¾- —
200-1,800-lb. lots lb. .27¼- —
Molasses, blackstrap, tanks gal. .08 —
New Orleans, tanks gal. .06½- —
Molybdate orange (see Orange molybdate).
Mineral spirits (see Petroleum, mineral spirits).
Molybdenum metal, 99% Mo., powd., kgs lb. 2.60 3.00
pure, kgs., works, basis Mo. content lb. .95 - —
technical, kgs., works, basis Mo. content lb. .80 —
Monochlorobenzene, dms., c.l., works, frt. alld lb. .07 .08
l.c.l., works, frt. equald lb. .08 - .09
tanks, works, frt. equald lb. .06 .06¼
Monoethanolamine, dms., c.l., frt. alld. E lb. .27 —
l.c.l., same basis lb. .28 —
tanks, same basis lb. .25¼- —
Monoethylamine, dms., c.l., frt. alld. basis 100% lb. .21½- —
l.c.l., same basis lb. .22½- —
tanks, same basis lb. .20 —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .35 - —
l.c.l., same basis lb. .35½- .38
tanks, same basis lb. .31 —
Monomethylanilin, dms. works lb. .70 —
Monononylnaphthalene, dms., c.l., works lb. .14 —
l.c.l., works lb. .15 - —
tanks, works lb. .13 —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Monotertiarybutylmetacresol, dms., c.l., works lb. .50 - —
l.c.l., works lb. .51 - —
tanks, works lb. .49 —
Morphine, cns. oz. 12.35 - 12.40
Acetate, cns. oz. 9.85 9.90
Hydrobromide, cns. oz. 9.80 —
Hydrochloride, NF, cns. oz. 9.90 —
Sulphate, USP, cns oz. 9.90 —
Morpholine, dms., c.l., works lb. .60½- —
l.c.l., works lb. .61 - —
tanks, works lb. .59 - —
Mountain ash berries, bgs. lb. .65 - .75
Mullein flowers, cs. lb. 1.15 - 1.20
Leaves, bls. lb. .16 - .18
Musk, nat., Tonquin, grains, bots. oz. 25.00 - 30.00
synthetic—Ambrette, 100 lbs lb. 5.40 —
25 lbs. lb. 5.50 - —
5 lbs. lb. 5.65 - —
Ketone, 100 lbs. lb. 4.95 - —
25 lbs. lb. 5.05 - —
5 lbs lb. 5.20 - —
Xylol, 100 lbs. lb. 1.40 - —
25 lbs. lb. 1.45 - —
5 lbs. lb. 1.55 - —
Musk root, bls lb No prices
Mustard seed, Calif., brown, f.o.b. source lb. .07¼- .07½
Danish, bgs., futures lb. .11 - .11½
Dutch, yellow, bgs., futures lb. .11½- .12
English, yellow, bgs lb. .11½- .12
Montana, brown, bgs., source. lb. .05¼- .05½
Oriental, bgs., source lb. .07 Nom.
yellow, bgs., source lb. .10 - .10½
Washington, yellow, source, bgs. lb. .11 - .11½
Myrobalans, J1, assorted, ex dock. ton. 52.00 - —
crushed, ex dock ton. 76.50 - —
J2, ex dock ton. 42.00 - —



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FATTY ACIDS AND PLASTICIZERS

Crude, White Distilled, Fractionated Fatty Acids of:

Coconut Oil	Corn Oil	Tallow
Linseed Oil	Cottonseed Oil	Hardened Tallow
Soya Bean Oil	Stearic Acid Plasticizer SC	Marine Oils

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Detergents	Softeners	Scouring Compounds
Wetting Agents	Dye Assistants	Sulphonated Oils
Finishes	Yarn Lubricants	Wool and Worsted Oils

TECHNICAL PRODUCTS DIVISION

E. F. DREW & CO., INC.

15 EAST 26th STREET, NEW YORK 10, N. Y.

CHICAGO PHILADELPHIA BOSTON GREENVILLE, S. C.

DREW PRODUCTS

N

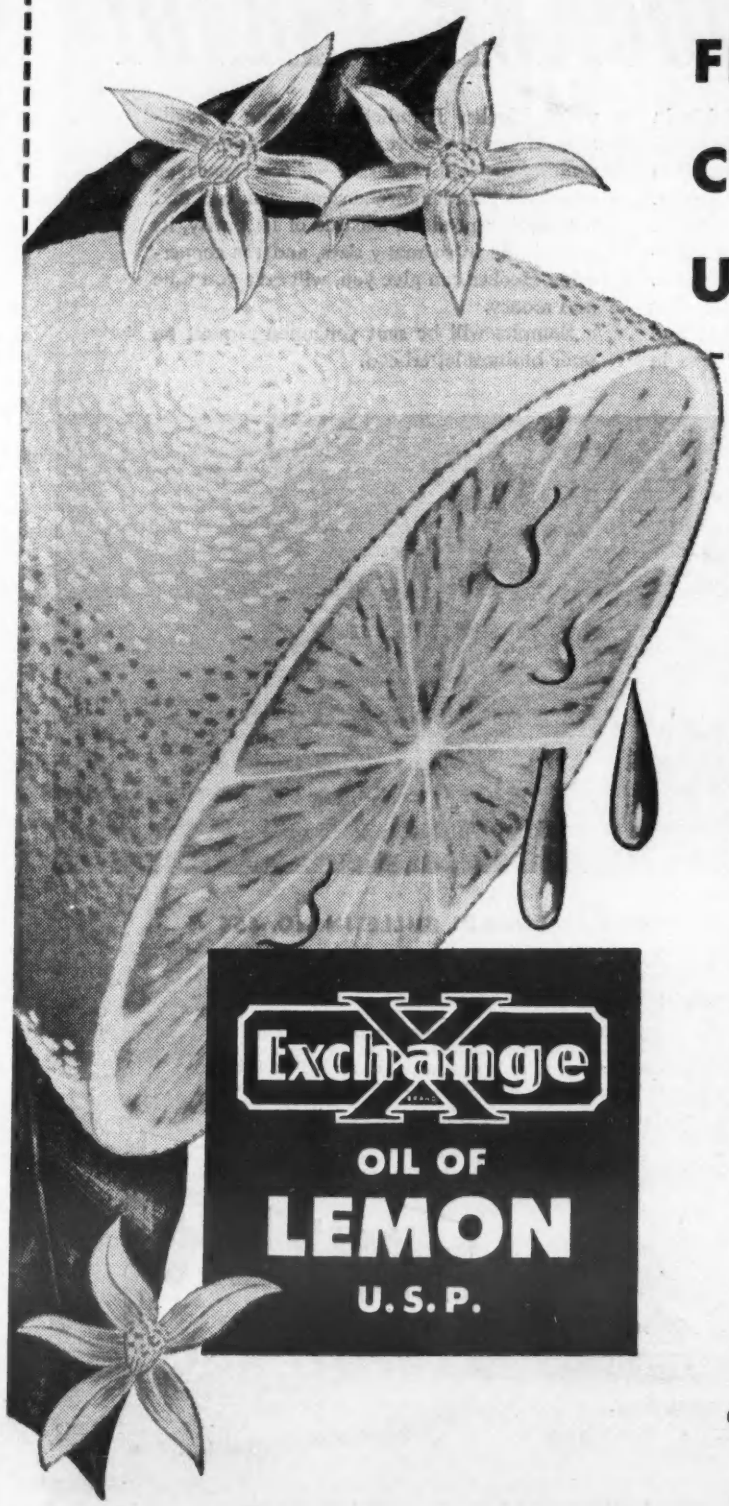
Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Naphtha—Oil, Lemongrass
Solvent (see S).
Naphthalene, dom., crude, 74°, bgs., bbls., frt. equald lb. .09 —
tanks, same basis lb. .0525 —
78°, bgs., c.l., works, frt. equald lb. .0633- —
l.c.l., same basis lb. .0660- —
bbls., c.l., same basis lb. .0635- —
l.c.l., same basis lb. .0660- —
dms., c.l., same basis lb. .0750- —
l.c.l., same basis lb .08 —
tanks, same basis lb. .0575- —
refined, industrial, bbls., c.l., frt. equald lb. .10 - —
bgs., c.l., same basis lb. .09½- —
tanks, same basis lb. .09 - —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis lb. .12 - —
cs., 50 lbs., c.l., same basis lb. .12¼- —
1-lb. pkgs., c.l., same basis lb. .14 - —
imported, crude, 78°, 100-ton lots lb. .03¼- —
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 7.35
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y ton.14.25 —
pottery, 200 mesh, bulk, Rochester, N. Y ton.18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns lb. 2.00 2.25
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb .50 —
Carbonate, bbls., dlvd lb .48 .50
Chloride, bbls., dlvd lb. .23 —
Cyanide, bots., dms lb. 1.75 2.00
Formate, bbls., ton lots, dlvd lb. .43½- —
Metal, electro cathodes, cs lb. .40 - —
Nitrate, bbls., works lb. .24½- .25½
Oxide, black, bbls lb. .42 - —
Sulphate, bgs., c.l., dlvd lb. .18 - —
l.c.l., dlvd lb. .18½- —
Nicotinamide, USP, dms., frt. adjusted kilo.11.00 -11.30
Hydrochloride, dms., frt. adjusted kilo.10.50 -10.90
Nicotine sulphate, 40%, 50-lb. dms., dealers, frt. alld. over 70 lbs., dm.49.40 - —
tins, 10 lbs., dealers, frt. alld. on cases of 6 tin.10.85 - —
Nikethamide, bots., cbys lb. 5.50 6.60
Nitercake, bulk, works ton. No stocks.
Nitrobenzene, cbl. dist., dms., c.l lb. .09 .09½
l.c.l. lb. .10 .11
tanks lb. .08 - .08½
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80 and 125-175 secs., bbls., c.l., works, dry weight lb. .28 —
l.c.l., same basis lb. .29 .31
18-25 cps., 250-400 sec., and 600-1,000 secs., bbls., c.l., same basis lb. .30 - —
l.c.l., same basis lb. .31 - .33
spirit-soluble, 30-35 cps, ¼, ½, 5-6 and 40-50 secs., bbls., c.l., same basis lb. .32 - —
l.c.l., same basis lb. .33 .35
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra, but returnable.
Nitroethane, dms., works lb. .30 —
Nitrogen solution, tanks, work., N. ton.120.00 -126.23
Nitrogenous process tankage, bulk, works, ammo., ship't unit-ton. 3.90 - 4.00
Sewage sludge, bulk, works, unit ton. 3.25 + .40
Nitromethane, dms., l.c.l., works lb. .30 - —
Nitropropane, 1, dms., works lb. .30 - —
2, dms., works lb. .30 - —
Nonylphenol, dms., c.l., works lb. .26 - —
l.c.l., works lb. .27 - —
tanks, works lb. .25 - —
Nutgalls, Aleppo, bgs lb. .43 - —
Chinese, bgs lb. .38 - —
Istrian, bgs lb. .31 - —
Nutmeg, East Indian, bgs lb. .50 - .51
futures, bgs. lb. .47 - .48
West Indian, bgs lb. .27½- .28
futures lb. .27 - .28
Nux vomica, bls. lb. .10 - .12
powdered, bbls., bxs lb. .13 - .14

O

Oakbark extract, 25% tannin, bbls., c.l., works lb. No stocks
Octane, 100°-140° C, industrial grade, group 3, dms., c.l. gal. .19 —
l.c.l. gal. .21 - .50
tanks gal. .15½- —
100° C, Bayonne, N. J., tanks gal. .16 - —
Octanol, normal, tech., dms., c.l., dlvd lb. .34½- —
l.c.l., dlvd lb. .36½- —
tanks, dlvd lb. .32 - —
Octyl methacrylate, normal, dms., less than truckload, works. lb. .83 - —
Oil, abies siberica, cns lb. 3.25 - 3.50
Almond, artificial, bitter, (see Benzaldehyde)
natural, bitter, F.P.A., bots lb. 3.40 - 5.00
NF, bots lb. 3.50 - 3.60
Sweet, dms., cns lb. .70 - .95
Amyris, dms lb. 1.53 - 1.95
Angelica root, bots lb.75.00 -190.00
Seed, bots lb.80.00 -100.00
Anilin (see A).
Anise, USP, Chinese, dms lb. 1.35 - 1.70
Apricot kernel, USP, dms lb. .44 - .60
Avocado, cns., dms lb. 1.00 1.10
Babassu, crude, tankcars lb. .18¼- —
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.20 - 1.50
55-60%, cns. lb. 1.20 - 1.60
West Indian, 50-55%, cns lb. 1.20 1.60
Bergamot, artif., cns lb. 2.00 - 4.25
natural, Italian, cns lb. 4.40 - 5.00
Birchtar, crude, cns lb. .95 - 1.75
rectified, NF cns lb 4.15 4.25
Bois de rose, Brazil lb. 3.50 - 3.65
Mexican (see Oil, lignaloe wood)
Bone, dms., works gal. .65 - .70
Cajeput, tech., dms lb 1.65 - 2.00
redistilled, USP, cns lb 2.20 - 4.50
Calamus, cns lb.20.00 -28.00
Camphor, sassafrassy, dms lb. .23 - .50
white, dms. lb. .24 - .40
Cananga, native, cns lb. 4.20 - 4.50
rectified, cns. lb. 5.00 - 5.50
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns lb. 3.25 - 4.00
Cardamom, NF, bots lb.50.00 -65.00
Cassia, USP, cns lb. 2.05 - 3.00
Castor, blown, dms., c.l. lb. .20¾- —
dms., l.c.l lb. .21¼- —
dehydrated, bodied, dms., c.l lb. .22½- —
l.c.l. lb. .23 - —
tanks lb. .21½- —
unbodied, dms., c.l. lb. .21½- —
l.c.l. lb. .22 - —
tanks lb. .20½- —
hydrogenated, dms., c.l., works. lb. .27 - —
l.c.l., same basis lb. .28 - —
Oil, castor, No. 2, tech., dms., c.l lb. .17½- —
l.c.l. lb. .18 - —
tanks lb. .16½- —
sulphonated, 50% (48% fat), dms lb. .12 - .14
75% (60-62% fat), dms lb. .15¾- .16¾
tech., No. 1, Braz., tanks lb. .16¼- —
USP, standard, dms., c.l lb. .18¾- —
l.c.l. lb. .19¼- —
tanks lb. .17¾- —
refined and deodorized, dms., c.l. lb. .20¼- —
l.c.l. lb. .20¾- —
Cedarleaf, USP, dms lb. 1.75 - 1.93
Cedarwood, cns. lb. .40 - .53
dms. lb. .32 .50
Celeryseed, bots lb.15.00 -18.50
Chaulmoogra, NF, cns., dms lb. .55 70
Chinawood (see Oil, tung).
Cinnamon bark, bots lb.29.00 -62.00
Leaf, Ceylon lb. 1.50 1.75
Citronella, Ceylon, cns lb. 1.10 - 1.55
Java-type, cns lb. 1.75 - 2.10
Clove, USP from buds, cns., dms. lb. 1.60 - 1.65
Coconut, crude, tanks, Atlantic ports lb. .15¾- —
Pac. Coast lb. .14¾- —
refined, Cochin type, tax incl., dms., l.c.l lb. .22½- —
deodorized, tax incl., dms., l.c.l. lb. .23 - —
Cod, Newfoundland, dms lb. .07½- .08¼
Codliver, USP, dms gal. 1.40 - 1.55
Coriander, bots. lb.20.00 -27.00
Corn, crude, tanks, works lb. .14 - —
foots, acid, 95%, tanks, dlvd. E lb. .04½- .04¾
raw, 50%, tanks, dlvd. E lb. .01¼- .01¾
refined, dms., New York lb. .18¼- .18¾
tanks, same basis lb. .16¾- —
Costus, bots. oz.26.50 - —
Oil, cottonseed, crude, tanks, Southeast and Valley lb. .13½- —
foots, acid 95%, tanks, dlvd. E lb. .03 - —
raw, 50%, tanks, dlvd. E lb. .01¼- .01½
refined, dms. lb. .18½- .19
tankcars lb. .17 - —
Creosote (see Creosote, coaltar).
Croton, NF, cns lb. 4.75 5.50
Crude (see Petroleum, crude).
Cubeb, cns. lb 7.00 7.50
Cumin, bots lb. 6.25 - 7.50
Cypress, bots lb.11.00 15.00
Degras (see D).
Dillseed, bots lb 7.00 - 9.50
Dillweed, bots., dms lb. 5.75 - 7.10
Dip (see D).
Erigeron, cns lb. 5.00 5.25
Eucalyptus, rectified, USP, 80-90%, cns lb. .67 - 1.45
70-80%, cns. lb. .55 - 1.30
Fennel, sweet, cns lb. 2.50 - 3.00
Fir, Canada, cns lb. 2.00 - 2.05
Fishliver, crude, for feeds for concentrating, 6,000 to 12,000 A units, dms 1,000,000 units. .10 - .11
15,000 to 20,000 A units, dms. 1,000,000 units. .11 - .12
25,000 to 35,000 A units, dms. 1,000,000 units. .12½- .13½
40,000 to 55,000 A units, dms. 1,000,000 units. .14 - .16
Market prices on crude fishliver oil dependent upon conversion factor.
prime, natural, or concentrate, 100,000 A units, dms. 1,000,000 units. .19 - —
200,000 A units, dms 1,000,000 units. .20 - —
Oil, fishliver, prime, 300,000 A units, dms 1,000,000 units. .23 - —
400,000 A units, dms 1,000,000 units. .24 - —
500,000 A units, dms 1,000,000 units. .26 - —
Fuel (see Petroleum fuel oil).
Fusel (see F).
Garlic, pure, bots oz. 9.00 -15.00
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns lb.14.50 -16.25
Bourbon, cns lb.17.00 -20.00
Turkish (see Oil, palmarosa).
Ginger, dist., bots lb.23.00 -28.00
Grapefruit lb. .65 - 1.25
Grease, No. 1, dms lb. .11½- .12
extra, Winter, strained, dms lb. .12¾- .13¼
prime, burning, dms lb. .13¾- .14¼
Guaiacwood, cns. lb. 1.85 - 1.90
Hemlock, cns lb. 1.75 - 2.00
Herring, crude, tanks, Pac. coast. lb. No prices.
Juniper berry, NF VIII, bots lb. 3.15 - 7.00
twice rectified lb. 4.85 - 5.25
Tar, USP (see Juniper tar).
Wood, tech., cns lb. .85 - 1.00
Lard (see Oil, grease).
Laurel, bots. lb. 9.75 -12.50
Lavandin, cns. lb. 1.40 - 1.85
Lavender flower, French, 40-42% ester, cns. lb. 4.15 - 4.75
38-42% ester, cns lb. 3.20 - 4.10
30-32% ester, cns lb. 2.30 - 3.25
Spike, Spanish, cns lb. .90 - 1.75
Lemon, USP, Calif., cns lb. 2.95 - 3.25
Messina lb. 2.85 - 5.00
terpeneless, bots lb.32.00 -65.00
Lemongrass, cns., dms lb. 2.25 - 3.00

8 out of 10 say it's *best* for

FLAVOR
CLARITY
UNIFORMITY



Yes, more than 80% of all the lemon oil used in the United States is Exchange Lemon Oil!

This overwhelming endorsement by the trade is your guarantee that Exchange Lemon Oil delivers *quality*... quality in the form of superior *flavor* and unmatched *clarity* and *uniformity*.

Always specify it by the brand name when you order—Exchange Oil of Lemon. For complete satisfaction, accept no other brand.

Distributed in the United States exclusively by
DODGE & OLCOTT, INC.
180 Varick Street, New York 14, N. Y.
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Distributors for:
CALIFORNIA FRUIT GROWERS EXCHANGE
Products Department, Ontario, Calif.

Producing Plant:
Exchange Lemon Products Co., Corona, Calif.

Oil, Lignaloe Seed—Orthocresol

Oil, lignaloe seed, Mexican, cns..lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns.....lb. 3.35 - 5.20
Lime, distilled, Mexican, cns...lb. 5.50 - 6.50
West Indian, cns.....lb. 6.00 - 7.50
expressed, West Indian, cns..lb. 7.25 -11.25
terpeneless, bot.....lb.45.00 -65.00
Linseed, raw, dms., c.l., Zone 3. lb. .1770- .1810
l.c.l. .....lb. .1870- .1910
tankcars .....lb. .1650- .1690
tankwagon .....lb. .1680- .1720
Boiled linseed oil .007 higher than raw
Mace, dist., cns., dms.....lb. 3.45 - 3.85
Mandarin, Floridian, dms.....lb. 1.60 - 1.65
Italian, cns. .....lb. 5.50 - 6.00
Menhaden, crude, tanks, Balto. lb. .06¾ Nom.
refined, alkali, dms .....lb. .1180- —
kettle-bodied, dms.....lb. .1330- —
light-pressed, dms.....lb. .1080- —
tanks .....lb. .0920- —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard seed, expressed, dms..lb. .22½- .23
synthetic, cns., dms.....lb. 1.40 - 1.70
Neatsfoot, 15°, dms.....lb. .28 - .28½
20°, dms. .....lb. .27 - .27½
30°, dms. .....lb. .21 - .21½
Neroli, French, bots.....lb.85.00 -300.00
Haitian, bots.....lb.85.00 -90.00
Niaouli, cns.....lb. 2.30 - 3.25
Nutmeg, dist., East Indian, cns., dms..lb. 3.60 - 3.85
West Indian, cns., dms....lb. 3.50 - 4.35
Ocotea cymbarum, dms.....lb. .75 - 1.00
Olticica, liquid, drums.....lb. .21 - .22
tankcars .....lb. .20 - .21

Oil, oleo, extra, dms.....lb. .12½- .13
Olibanum, bots.....lb. 4.50 - 7.65
extra fine, bots.....lb. 6.25 - 8.50
Olive, commercial, dms.....gal. 1.75 - 1.85
edible, dms., duty paid....gal. 2.25 - 2.50
foots, dms.....lb. .13 - .13½
Orange, sweet, natural, dist., cns., lb. .25 - .60
expressed, USP, Brazilian, cns lb. .95 - 1.25
Calif., cns. .....lb. .60 - 1.00
Florida, cns., dms.....lb. .42 - 1.00
Messina, coppers.....lb. 2.95 - 5.50
West Indian, cns .....lb. 1.95 - 2.50
sesquiterpeneless, bots.....lb.55.00 -95.00
Origanum, Spanish, cs.....lb. 2.50 - 3.50
Palm, Congo, dms.....lb. .13 - —
tankcars .....lb. .1170 Nom.
Palmarosa, cns. .....lb. 7.75 - 9.00
Palmkernel, crude, bulk, c.i.f. NY .lb. No prices.
Paraffin, pale, 100-110 vis. at 100° F, tanks, East Coast refinery..gal. 11½- —
Patchouli, dms.....lb.22.00 -22.50
Peach kernel, USP (see Oil, apricot kernel).
Peanut, crude, tanks, Southeast lb. .15½- —
refined, dms.....lb. .19½- .20
tanks, New York.....lb. .18 - —
Pennyroyal, USP, dom., cns..lb. No stocks.
imported, cns.....lb. 4.60 - 5.50
Peppermint, natural, dms.....lb. 6.25 - 6.40
redist., USP, dms.....lb. 6.50 - 7.00
Persic, USP (see Oil, apricot kernel).
Perilla, crude, dms.....lb. No stocks.
Petitgrain, Paraguay, cns.....lb. 1.95 - 2.50
Pimento berry, dms.....lb. 3.85 - 5.75
leaf, cns.....lb. 1.55 - 1.95

Oil, pine, dest.-dist., dms., incl., c.l., works, South..gal. .60 - —
l.c.l., works, South....gal. .61 - —
ex whse., N. Y. C....gal. .72 - —
steam-dist., dms., ex whse., nonret, dms., incl., l.c.l., ex whse., N.Y.C..lb. .09½- —
Pineneedle, Siberian (See oil, abies siberica).
Putty, petroleum, dms., c.l., dlvd. lb. .11 - —
l.c.l., same basis.....lb. .12 - —
tanks, same basis.....lb. .10 - —
Rapeseed, tankcars.....lb. .15½ Nom.
Red, saponified, dms.....lb. .12¼- .13¼
single dist., dms.....lb. .13 - .14
tanks .....lb. .11¾- —
double dist., dms.....lb. .15½- .16
tanks .....lb. .14¼- —
Rice bran, clarif., dms.....lb. .14 - .14½
tanks .....lb. .12½- —
Rose, natural, Bulgarian, coppers .oz.24.00 -36.00
Rosemary, Spanish, tech., cns., dms..lb. .75 - 1.50
USP, cns., dms.....lb. .95 - 1.60
Rue, bots .....lb. 2.75 - 3.50
Sage, clary, bots. .....lb.13.50 -16.00
Dalmatian, cns.....lb. 4.50 - 5.50
Spanish, cns. .....lb. 1.00 - 3.50
Sandalwood, NF, cns.....lb.11.50 -16.30
Sardine, crude, tanks, Pac. coast lb. .07 - .07½
refined, alkali, dms.....lb. .1180- —
kettle-bodied, dms. .....lb. .1330- —
light-pressed, dms. .....lb. .1080- —
tanks .....lb. .0920- —
Sassafras, artificial.....lb. .58 - .78
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP, cns., dms...lb. 1.80 - 2.30
Savin, cns.....lb. 2.75 - 3.00
Savory, cns.....lb. 8.00 - —
Seal, 2% acid, duty extra, dms lb. No stocks.

Oil, sesame, ref., dms., l.c.l.....lb. .31 - —
Shingle stain, bbls., c.l., works, gal. .27 - —
l.c.l., works.....gal. .30 - —
tanks, works.....gal. .19 - —
Snakeroot, Canada, cns.....lb.18.75 -25.00
Soybean, crude, tanks, mills....lb. .13 - —
foots, acid, 95%, tanks, dlvd. E..lb. .06 - —
raw, 50%, tanks, dlvd. E..lb. .02¾- —
refined, alkali, dms., c.l.....lb. .1645- —
l.c.l. .....lb. .1705- .1785
tanks .....lb. .1514- —
clarified, dms., c.l.....lb. .1555- —
l.c.l. .....lb. .1625- .1655
tanks .....lb. .1414- —
edible, dms.....lb. .1634- .1714
tanks .....lb. .1534- —
Spearmint, dms.....lb. 3.15 - 5.50
Sperm, bleached, winter, 45°, drums..lb. .1620- .1670
tankcars .....lb. .1520- —
natural, winter, 45°, dms....lb. .15 - .15½
tankcars .....lb. .14 - —
Spruce, cns., dms.....lb. 1.75 - 2.00
Sunflower-seed, unp., refined, tanks lb. No prices.
semi-refined, tanks lb. No prices.
Sweet birch, Northern, cns....lb. 4.50 - 7.50
Southern, cns. .....lb. 1.95 - 3.65
Tall, crude, tanks, works ....ton.40.00 - —
refined, dms., c.l., works....lb. .06 - —
l.c.l., works.....lb. .0614- —
tanks, works .....lb. .05 - —
Tallow, acidless, dms.....lb. .11 - .11½
Tansy, dms. .....lb. 8.75 - 9.00
Tar, pine, coml.' dms., incl., c.l., works, South..lb. .045 - —
l.c.l., works, South....lb. .0473- —
whse., N.Y.C.....lb. .0595- —
tanks, works, South....lb. .035 - —
rectified, NF, c.l., dms., incl., works, South gal. .60 - —
Tar acid (see T).
Teaseed, dms. .....lb. No stocks.
Theobroma (see Cocoa butter).
Thyme, NF, red, cns.....lb. 2.05 - 3.25
white, cns.....lb. 2.30 - 3.80
technical, white, cns.....lb. .40 - 5.00
Tung, dom., tanks, mills.....lb. .26 - —
imported, dms., c.l.....lb. .27½- .27¾
l.c.l. .....lb. .28 - —
tanks .....lb. .26½- —
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, NF, cns., dms..lb. .21 - .35
Vetiver, Bourbon, cns.....lb.13.00 13.75
Haitian, cns. lb.10.00 14.00
Java, cns. .....lb. No prices.
Whale, ref., natural, dms....lb. No stocks.
Winter-bleached, dms ..lb No stocks.
Wheat germ, 5-gal. dms.....gal.10.00 -13.00
White mineral, tech., 50-65 vis., dms., c.l., N. Y..gal. 43 - —
l.c.l., same basis.....gal. 48 - —
65-75 vis., dms., same basis, gal. 44 - —
l.c.l., same basis .gal. 49 - —
USP, 80-90 vis., dms., c.l., same basis..gal. .45 - —
l.c.l., same basis ..gal. .50 - —
125-135 vis., dms., c.l., same basis..gal. .53 - —
l.c.l., same basis ....gal. .58 - —
145-155 vis., dms., c.l., same basis gal. 60 - —
l.c.l., same basis.....gal. .65 - —
175-185 vis., dms., c.l., same basis gal. 62 - —
l.c.l., same basis....gal. .67 - —
200-210 vis., dms., c.l., same basis..gal. .68 - —
l.c.l., same basis....gal. .70 - —
335-345 vis., dms., c.l., same basis..gal. .69½- —
l.c.l., same basis.....gal. .74½- —
Wintergreen, nat., Northern, cns..lb. 7.00 -14.50
Southern, cns .....lb. 3.65 -18.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns.....lb. 4.25 - 4.50
Wormwood, cns.....lb. 7.00 - 7.50
Ylang-ylang, Bourbon, bots.... lb. 8.25 11.50
extra, bots.....lb. No prices.
Madagascar, bots.....lb. No prices.
Olein, crude (see Oil, red).
white, low titre, dms.....lb. .15½- .16¼
tankcars .....lb. .14¼- —
Oleostearin, bbls.....lb. .09 - .09¼
Olivine, aggregate, c.l., mines ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works. ton.10.00 —
paper, bgs., c.l., works ..ton.12.00 —
Opium, USP, cns. .....lb.19.20 -19.45
gran., USP, cns. .....lb.21.65 -21.90
powd., USP, cns. .....lb.21.65 -21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.10 —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul..lb. .25 - —

Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

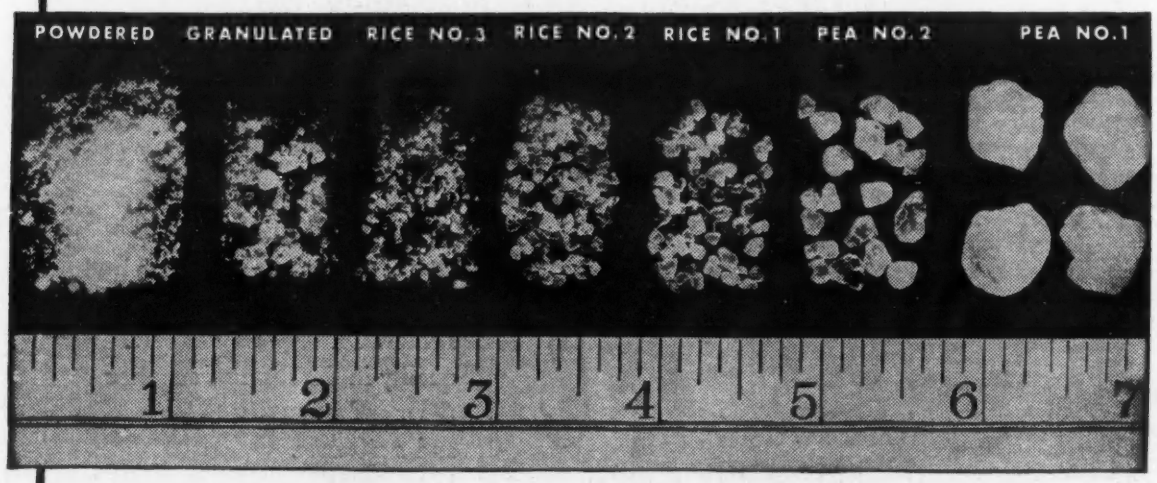
Chrome dinitroanilin toner....lb. 1.15 - —
Mineral, American, bbls., l.c.l., ship't point, frt. alld..lb. .1660- —
Molybdate .....lb. .40 - —
Persian, bbls.....lb. .30 - .45
Orange flowers, bls.....lb. .40 - .45
Orange peel, bitter, Haitian, bls..lb. .13 - .15
Sweet, bls.....lb. .13 - .17
Oregano, Mexican, bgs.....lb. .17 - .18
Portuguese, bgs.....lb. .18 - .18½
Sicilian, bgs.....lb. .18 - .19
Orris root, Florentine, bls.....lb. .20 - .25
powdered, bbls., bxs.....lb. .26 - .29
Veron a, bls.....lb. .16 - .21
powdered, bbls., bxs.....lb. .23 - .23
Orthoaminobiphenyl, dms., c.l., works..lb. .32½- —
l.c.l., same basis.....lb. .33 - —
tanks, same basis.....lb. .31 - —
Orthoanisidin, bbls .....lb. .80 - —
Orthochloroanilin, dms., 10,000 lbs. or more lb. 60 - —
smaller lots .....lb. .70 - —
Orthochloroparanitroanilin, dms., works..lb. .65½- —
Orthochlorophenol, dms., c.l., frt. equald..lb. .27 - —
l.c.l., same basis.....lb. .28 - —
Orthocresol, pure, 30° C, non-ret., dms., c.l., frt. equald. lb. .1930- .2405
l.c.l., same basis....lb. .1960- .2435
ret. dms., c.l., same basis lb. .1900- —
l.c.l., same basis....lb. .1930- —
29° C, non-ret. dms., c.l., same basis..lb. .1830- .2305
l.c.l., same basis....lb. .1860- .2335
ret. dms., c.l., same basis lb. .1800- —
l.c.l., same basis.....lb. .1830- —
25 to 27° C, non-ret. dms., c.l., same basis.....lb. .1630- .2080
l.c.l., same basis.....lb. .1660- .2110
tanks, same basis.....lb. .1500- .1950

Paradichlorobenzene—a Size for Every Purpose in HOOKER PARADI*

Hooker Paradichlorobenzene is available in seven different sizes, from powdered to Pea No.1 (passing thru ⅜" screen on No. 2½ mesh) so that you can find just the right size for your use.

And whatever size you use, you can be sure it is of that same high purity that has characterized the Hooker product for thirty years. Sparkling clear unadulterated crystals that evaporate completely leaving no residue and no stains. Shown below are the seven sizes in which Hooker Paradichlorobenzene is available. If you are interested in the mothicide or sanitary specialities market—if you repackage or reform paradichlorobenzene—you will find the Hooker product, because of its purity, its availability in so many sizes, and the cooperation Hooker can give you, will save you time and money.

Samples will be sent you upon request on your business letterhead.



HOOKER PARADI BULLETIN NO. 454

Hooker's new illustrated bulletin on Paradichlorobenzene contains a wealth of information for concerns engaged in or contemplating repackaging and reforming paradichlorobenzene. It gives information on the reprocessing for different applications, solubility of Paradi in common solvents, sources for reprocessing and packaging equipment as well as complete information about the Hooker product. Send for copy today.

*TRADEMARK REGISTERED

From the Salt of the Earth

HOOKER ELECTROCHEMICAL COMPANY

1 FORTY-SEVENTH ST., NIAGARA FALLS, N. Y.

NEW YORK, N. Y. • WILMINGTON, CALIF. • TACOMA, WASH.

HOOKER CHEMICALS

9-1589

SODIUM SULFIDE • SODIUM SULFHYDRATE • SODIUM BENZOATE • CAUSTIC SODA • MURIATIC ACID • PARADICHLOROBENZENE • CHLORINE

Orthodichlorobenzene, 50-lb. cns	lb.	.12½	—
100-lb. cns	lb.	.11½	—
dms., c.l., works, frt. alld. E. of Rockies	lb.	.08½	.08¾
l.c.l., same basis	lb.	.09½	.09¾
tanks, same basis	lb.	.07	.07¼
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.			
Orthoisopropyl N-phenylcarbamate (see IPC).			
Orthoisopropylphenol, dms., c.l.	lb.	.29	—
l.c.l.	lb.	.30	—
tanks	lb.	.23	—
Orthonitroanilin, dms	lb.	36	.53
Orthonitrochlorobenzene, dms	lb.	.18	.19
Orthonitrobiphenyl, tech., dms., c.l., works	lb.	.19½	—
l.c.l., works	lb.	.20	—
tanks, works	lb.	.18	—
Orthonitroparachlorophenol, cns	lb.	75	—
Orthonitrophenol, dms	lb.	66	77
Orthonitrotoluene, dms.	lb.	12	—
Orthophenetidin, dms., works	lb.	90	—
Orthotoluidin, dms., c.l., works	lb.	19	—
l.c.l., same basis	lb.	.20	—
tanks, same basis	lb.	.18	—
Osage orange crystals, bbls., l.c.l	lb.	33½	—
extract, liquid, bbls., l.c.l	lb.	13½	—
Orthotolidin, distilled, kgs	lb.	1.10	—
Ouabaine, USP, bots	gram.	3.00	4.00
Ox gall, conc., gran., lb. dms., 5 lbs. and up, cs.	lb.	2.50	—
Oxyquinolin sulphate, cns., 100 lbs. works	lb.	4.25	—
smaller lots, works	lb.	4.40	4.51

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Pancreas substance, assay 1:75	lb.	5.75	6.25
Pancreatin, USP	lb.	2.50	3.00
Panthenol, bots., works, frt. adjust.	kilo	90.00	—
Papain, powd., NF, cs	lb.	1.75	2.50
Papaverine, natural or synthetic, hydrochloride, USP, cns., 1,000-oz. lots	oz.	5.00	—
smaller lots	oz.	5.05	5.20
Sulphate, cns	oz.	7.10	7.35
Paprika, Chilean, bgs	lb.	.26	.27
Portuguese, bgs	lb.	.39	.40
Spanish, bgs	lb.	.44	.50
Para-anisidin, dms., works	lb.	80	—
Parachlorophenol, dms., c.l., frt. equald	lb.	27	—
l.c.l., same basis	lb.	23	—
Parachloroanilin, dms., frt. alld. E. of Miss	lb.	70	—
Parachloro-orthonitroanilin, dms	lb.	.63	—
Paracresol, 98%, dms., works	lb.	.50	.65
Paracymene, dms., works, 50 gals. or more	gal.	2.50	—
smaller quantities	gal.	3.00	—
Paradibromobenzene, bgs., 5x0-lb. lots.	lb.	.45	—
Paradichlorobenzene, dms., c.l., works	lb.	.11	—
l.c.l., same basis	lb.	.12½	.14
Paraffin, crude, scale, white or yellow, 119-121 ASTM, bbls., c.l., refinery	lb.	No prices.	
121-123 ASTM, bbls., c.l., ref'y	lb.	No prices.	
126-128 ASTM, bbls., c.l., ref'y	lb.	No prices.	
fully ref'd, slabs, 120-122 ASTM, loose, c.l., ref'y	lb.	.0635	—
122-124 ASTM, loose, c.l., ref'y.	lb.	.0635	—
125-127 ASTM, loose, c.l., ref'y.	lb.	.0635	—
128-130 ASTM, loose, c.l., ref'y.	lb.	.0640	—
130-132 ASTM, loose, c.l., ref'y.	lb.	.0645	—
132-134 ASTM, loose, c.l., ref'y.	lb.	.0660	—
133-137 ASTM, loose, c.l., ref'y	lb.	.0795	—

Paraffin prices in bgs. and ctns., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher, and under 1,000 lbs., 3.7c. per lb. higher.

Paraformaldehyde, 94-95%, powd., dms., c.l., dlvd. N.Y.	lb.	.15½	.16¾
10,000 lbs. to c.l., same basis.	lb.	.16½	.16¾
1,000-9,999 lbs., same basis	lb.	.17½	.17¾
less than 1,000 lbs., same basis	lb.	.19¼	.19½
94-95%, powd., dms., c.l., works.	lb.	.13	—
10,000 lbs. to c.l., same basis.	lb.	.14	—
1,000-9,999 lbs., same basis.	lb.	.15	—
less than 1,000 lbs., same basis	lb.	.17	—
91-92% flake, fib. dms., c.l., works.	lb.	.11	—
10,000 lbs. to c.l., same basis.	lb.	.12	—
1,000-9,999 lbs., same basis	lb.	.13	—
less than 1,000 lbs., same basis	lb.	.15	—

Quotations on 91-92% flake paraformaldehyde in the New York metropolitan area are on a delivered basis, 2½c. per lb. higher than works prices.

Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works	lb.	.12½	.13¼
5-10-gal. dms., l.c.l., works	lb.	.16½	—
tanks, works	lb.	.10½	—
USP, clys	lb.	51	.53
Paranitroanilin, kgs., works	lb.	.44½	.46½
Paranitrochlorobenzene, kgs., works	lb.	.19	.20
Paranitrophenol, kgs., works, frt. equald	lb.	40	—
Paranitrotoluene, kgs., works	lb.	.30	—
Paraphenetidin, dms., works	lb.	.80	—
Paraphenylphenol, bgs., works	lb.	.28	.29
Paraphenylenediamine, redistilled, dms., works	lb.	2.00	—
technical, refined, dms., same basis	lb.	1.25	1.35
Paratertiarybutylphenol, bgs., c.l., frt. equald	lb.	.21	—
l.c.l., same basis	lb.	.22	—
Parthion, spray powder, 15% tins, dealers	lb.	.72	—
tech., dms., works	lb.	1.50	2.50
Paratoluenesulphonamide, bbls., works	lb.	70	—
Paratoluidin, bbls., works	lb.	55	—
Pareira brava root, whole, bgs.	lb.	.30	.31
ground, bxs	lb.	.35	.37
powder, bxs	lb.	38	40
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over	lb.	.33	.37
l.c.l., same basis	lb.	.34	.66
Passion flower herb, bls	lb.	40	.45
Patchouli leaves, bls	lb.	No stocks.	
Peanut meal, 45%, sacked, mills	ton.	61.00	62.00
Pectin, citrous, NF, powd., bbls	lb.	2.05	2.06
tech., powd., bbls	lb.	1.42	1.43
Penicillin, crystalline, potassium, unlabeled, vials, 100,000 units	vl.	.102	—
200,000 units	vl.	.15½	—
500,000 units	vl.	.28	—
1,000,000 units	vl.	.52	—
2,000,000 units	vl.	1.00	—
bulk, sterile, over 25,000,000,000 unit lots 100,000 units.		.04	—
tablet grade, over 25,000,000,000 unit lots 100,000 units.		.03½	—
Penicillin, procaine, bulk, over 25,000,000,000-unit lots 100,000 units.		.04½	—
sodium, unlabeled vials, 100,000 units	vl.	.10¾	—
200,000 units	vl.	.16	—
500,000 units	vl.	.30½	—
1,000,000 units	vl.	.57	—
2,000,000 units	vl.	1.03	—
bulk, over 25,000,000,000 unit lots 100,000 units.		.04½	—
Pennyroyal leaves, bls	lb.	.40	.45
Pentachlorophenol, dms., c.l., works, frt. equald	lb.	.20	—
l.c.l., same basis	lb.	.23	.26
truckload, 20,000 lbs., min., same basis	lb.	.20¼	—
Pentaerythritol, tech., ogs., c.l., works	lb.	.29	—
l.c.l., works	lb.	.31	.33

Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol)

Pentane, industrial, tanks, group 3	gal.	10½	11¼
Pepper, black	lb.	1.37	—
Mar. arrival	lb.	1.37	—
May shipment, bgs	lb.	1.37	—
Red, Carolina, longs, bgs	lb.	.40	.41
Oct.-Nov. delivery, bgs	lb.	.37	—
Ethiopian, stemless, bgs	lb.	.32	.32½
Haitian, bgs	lb.	.60	.61
Hontaka, bgs	lb.	.60	.61
Louisiana longs, bgs	lb.	.41	.41½
Mexican sports, bgs	lb.	.37	.38
Mississippi sports, bgs., source	lb.	.45	.45½
Mombassa, bgs., afloat	lb.	.52	.52½
Nigerian caps, bgs., futures	lb.	.45	.46
birdseye, bgs	lb.	.65	.66
Sudanese, small, bgs	lb.	.51	.52
Turkish, bgs	lb.	.27	.28
White, bgs	lb.	2.50	2.55
Peppermint, USP, dom., bls	lb.	.50	.70
imported, bls	lb.	.80	.90
Pepsin, NF, bulk containers	lb.	3.90	—
Perchloroethylene, dms., c.l., or truckload, works, frt. equald.	lb.	.10¼	—
l.c.l., same basis	lb.	.11	—
tanks, same basis	lb.	.09¾	—
dms., c.l., zone 1, works, frt. alld	lb.	.11	—
zone 2, same basis	lb.	11½	—
zone 3, same basis	lb.	12	—
zone 4, same basis	lb.	.11½	—
l.c.l., zone 1, same basis	lb.	.11¾	—
zone 2, same basis	lb.	12¼	—
zone 3, same basis	lb.	12¾	—
zone 4, same basis	lb.	.12¼	—
tanks, zone 1, same basis	lb.	.10½	—
zone 2, same basis	lb.	11	—
zone 3, same basis	lb.	11½	—
zone 4, same basis	lb.	.11	—

Perchloroethylene zones are: (1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Colo., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont., (W), Nev., Ore., Utah, Wash.

Peru balsam, dms	lb.	.90	1.10
Petrolatum, USP, amber, dms., c.l., New York	lb.	.04⅞	—
l.c.l., same basis	lb.	.05¼	—
cream, dms., c.l., same basis	lb.	.06¼	—
l.c.l., same basis	lb.	08	—
extra amber, dms., c.l., same basis	lb.	.05½	—
l.c.l., same basis	lb.	.06	—

Orthodichlorobenzene—Petroleum Ether

Petrolatum, USP, white lily, dms., c.l., same basis	lb.	.06⅞	—
l.c.l., same basis	lb	08¼	—
snow, dms., c.l., same basis	lb.	.07½	—
l.c.l. same basis	lb	08½	—
soft, dms., c.l., same basis	lb.	.06⅜	—
l.c.l., same basis	lb	07½	—
yellow, soft, dms., c.l., same basis	lb	05	—
l.c.l., same basis	lb	05⅞	—
Petroleum, crude bulk, at wells, California	bbl.	1.10	2.99
Illinois	bbl.	2.44	2.87
Kentucky	bbl	2.42	2.83
Louisiana-Arkansas	bbl	2.08	2.90
Montana	bbl	1.28	2.77⅝
Oklahoma-Kansas	bbl.	2.16	2.65
Pennsylvania, lower field	bbl.	3.54	—
Upper field	bbl.	2.75	3.54
Texas, East	bbl	2.60	—
Gulf coast	bbl	2.38	2.93
North, North-Central	bbl	2.23	2.65
Panhandle	bbl	2.23	2.65
West	bbl	2.10	2.65
Wyoming	bbl	1.28	2.87⅝
Ether, laboratory, 30°-60° C. cns., dlvd. E	gal.	1.50	—
dms., c.l., group 3	gal.	26	—
l.c.l., same basis	gal	44	—
33°-60° C, 10-gal. cns., dlvd. E.	gal.	1.50	—
dms., c.l., Group 3	gal.	26	—
l.c.l., same basis	gal	44	—
40°-75° C, 10-gal. cns., dlvd. E	gal.	1.50	—
dms., c.l., Group 3	gal	26	—
l.c.l., same basis	gal	44	—
90°-160° C, ret. dms., ex tax, f.o.b. San Francisco	gal.	.87	—

NEW HEYDEN CHEMICAL "BUILDING MATERIALS"

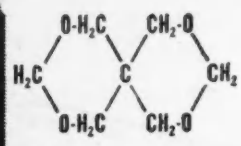
PENTAERYTHRITOL DIFORMAL

Molecular Weight 160.17

PROPERTIES

Appearance . . . . . white flakes
Congealing Point . . . . . 50°C.
Boiling Point . . . . . 80°-83°C. (1 mm.)
Solubility . . . moderately soluble in water, soluble in alcohol, acetone and benzene.

Availability Pilot Plant quantities



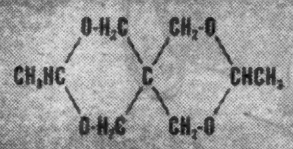
PENTAERYTHRITOL DIACETAL

Molecular Weight 188.22

PROPERTIES

Appearance . . . . . white flakes
Congealing Point . . . . . 42°C.
Boiling Point . . . . 215°-216°C. (760 mm.)
Solubility . . . . moderately soluble in water, soluble in alcohol, acetone and benzene.

Availability Pilot Plant quantities



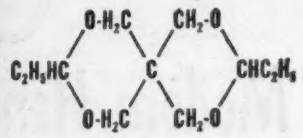
PENTAERYTHRITOL DIPROPIONAL

Molecular Weight 216.3

PROPERTIES

Appearance: Slightly viscous, colorless liquid
Congealing Point . . . . . 19°C.
Boiling Point . . . . 258°-259°C. (760 mm.)
Solubility . . . . . Slightly soluble in water, miscible in all proportions with alcohol, acetone and benzene.

Availability Pilot Plant quantities



PENTAERYTHRITOL DIBUTYRAL

Molecular Weight 244.3

PROPERTIES

Appearance . . . . . White flakes
Congealing Point . . . . . 39°C.
Boiling Point . . . . 289°-290°C. (760 mm.)
Solubility . . . . Slightly soluble in water, soluble in alcohol, acetone and benzene.

Availability Pilot Plant quantities

Technical literature and samples sent promptly upon request on company letterhead

HEYDEN CHEMICAL CORPORATION
393 SEVENTH AVENUE, NEW YORK 1, N. Y.
CHICAGO 6 • PHILADELPHIA 3 • SAN FRANCISCO 11
DETROIT 1 • RUMFORD 16, R. I.

FINE HEYDEN CHEMICALS

Benzaldehyde • Benzoates • Benzyl Chloride • Bromides • Chlorinated Aromatics • Creosotes • Formaldehyde • Formic Acid • Glycerophosphates • Guaiacols • Hexamethylenetetramine • Medicinal Colloids • Methylene Disalicylic Acid • Paraformaldehyde • Parahydroxybenzoates • Penicillin • Pentaerythritols • Propyl Gallate • Quadrafos • Salicylates • Salicylic Acid • Streptomycin

Petroleum, Fuel Oil—Pipsissewa Herb

Petroleum fuel oil, bunker C, No. 6, California, heavy, tanks, refinery bbl. 1.25 - 1.55
light, tanks, refinery bbl. 1.65 - 2.10
eastern, tanks, Albany, N. Y. bbl. 2.20 - —
Baltimore, Md. bbl. 1.93 - —
Boston, Mass. bbl. 1.95 - —
Charleston, S. C. bbl. 1.88 - —
Jacksonville, Fla. bbl. 1.87 - —
New York, N. Y. bbl. 1.90 - 2.00
Norfolk, Va. bbl. 1.93 - —
Philadelphia, Pa. bbl. 1.93 - —
Portland, Me. bbl. 1.90 - —
Providence, R. I. bbl. 1.925 - —
Savannah, Ga. bbl. 1.88 - —
Diesel, tanks, refinery, California gal. .081 - .115
Pennsylvania gal. .09 - .0925
Furnace, tanks, refinery, Arkansas, No. 2 gal. .0775- —
No. 3 gal. .07375- —
Bayonne, N. J., No. 2 gal. .077 - —
Group 3, No. 1 gal. .0625- .06625
No. 1, straw gal. .0625- .08625
No. 2, straw gal. .07625- .085
range gal. .0625- .0875
Pennsylvania, western, No. 1 gal. .095 - .10
No. 2 gal. .0925- .095
No. 3 gal. .09 - .0925
Lacquer diluent, California, 170-225 F, b.r., tanks, ex tax, f.o.b. Los Angeles gal. .147 - —
255 F, b.r., tanks, ex-tax, Portland, Ore. gal. .158 - —
San Francisco gal. .152 - —
Seattle, Wash. gal. .158 - —
East coast, tanks, N. J. and N. Y. refinery gal. .16 - —

Petroleum, lacquer diluent, group 3, benzol-type, tanks, refinery gal. .12125- —
toluol-type, tanks, refinery, gal. .11125- .11375
Mineral, spirits, California, 170-255 b.r., tanks, ex tax, f.o.b. San Francisco gal. .152 - —
205-295 b.r., tanks, same basis gal. .152 - —
245-360 b.r., tanks, same basis gal. .152 - —
305-362 b.r., tanks, same basis gal. .142 - —
312-400 b.r., tanks, same basis gal. .142 - —
360-455 b.r., tanks, same basis gal. .152 - —
East coast, tanks, N. J., N. Y., refinery gal. .14 - —
group 3, tanks gal. .09875- .10375
tankwagon, Baltimore gal. .175 - —
Boston gal. .16 - —
Buffalo gal. .165 - —
Camden, N. J. gal. .15 - —
Chicago gal. .197 - —
Detroit gal. .214 - —
Kansas City, Mo. gal. .182 - —
Newark gal. .15 - —
New York gal. .15 - —
Philadelphia gal. .14 - —
Pittsburgh gal. .175 - —
Providence gal. .165 - —
Rochester gal. .16 - —
St. Louis gal. .19 - —
Syracuse gal. .19 - —
Washington, D. C. gal. .175 - —

Petroleum, naphtha, cleaners, East Coast, tanks, N. J., N. Y., refinery gal. .14 - —
Group 3, tanks gal. .10875- —
tankwagon, St. Louis gal. .19 - —
Newark gal. .15 - —
Chicago gal. .197 - —
Detroit gal. .214 - —
New York gal. .15 - —
Philadelphia gal. .14 - —
high-flash, 140° F, group 3, refinery, tanks gal. .13 - .145
200-285 b.r., 37-38° C., mixed anilin pt., tanks, refinery or terminal gal. .20 - .21
25-26° C., m.a.p., tanks, same basis gal. .20½- .24
270-370 b.r., 78-81° C., m.a.p., tanks, same basis gal. .23½- —
40° C., m.a.p., tanks, same basis gal. .26½- —
26-27° C., m.a.p., tanks, same basis gal. .20¼- .24¼
340-410 b.r., 27° C., m.a.p., tanks, same basis gal. .30¼- —
32° C., m.a.p., tanks, same basis gal. .20¼- —
26° C., m.a.p., tanks, same basis gal. .20¼- —
340-440 b.r., 32° C., m.a.p., tanks, same basis gal. .25½- .27
360-480 b.r., 25° C., m.a.p., tanks, same basis gal. .20¼- —
V.M.&P., ref'y, California, 245-360 b.r., Los Angeles gal. .147 - —
Portland, Ore. gal. .158 - —
San Francisco gal. .152 - —
Seattle, Wash. gal. .158 - —

Petroleum Naphtha, V.M.&P., East coast, N.J., N.Y., tanks gal. .15 - —
Group 3, tanks gal. .10875- .11375
tankwagon, Boston gal. .175 - —
Chicago gal. .207 - —
Detroit gal. .224 - —
Milwaukee gal. .209 - —
Minneapolis gal. .207 - —
Newark gal. .165 - —
New York gal. .165 - —
Philadelphia gal. .165 - —
Pittsburgh gal. .185 - —
St. Louis gal. .20 - —
Solvent, rubber, California, tanks, ex tax, San Francisco gal. .152 - —
East coast, N. J. N. Y., gal. .15 - —
Group 3 tanks gal. .10375- .11375
Stoddard, California, tankwagon, ex-tax, Los Angeles gal. .157 .195
East coast, N. J. N. Y., tanks gal. .14 -
Group 3, tanks gal. .10375- .10625
Pennsylvania, western, tanks gal. .1225- —
tankwagon, Boston gal. .16 - —
Chicago gal. .197 - —
Detroit gal. .214 - —
Milwaukee gal. .199 - —
Minneapolis gal. .197 - —
Newark gal. .15 - —
New York gal. .15 - —
Philadelphia gal. .14 - —
Pittsburgh gal. .175 - —
St. Louis gal. .19 - —
Syracuse gal. .19 - —
Sulphonate, 70% sulphonic content, ret. dms., c.l., works lb. .1715- —
l.c.l., works lb. .1750- —
tanks, works lb 1525- —
80% sulphonic content, ret. dms., c.l., works lb. .1365- —
l.c.l., works lb. .1400- —
tanks, works lb 1175- —
Phenobarbital, USP, dms., 100 lbs. lb 4.00 4.35
Phenobarbital-sodium, USP, dms lb. 4.00 4.10
Phenol 90-92% (cresol, 8-10%), dms., c.l., frt. alld. and frt. equald. E. of Rockies. lb. .1375- —
l.c.l., same basis lb. .1450- —
tanks, same basis lb. .1200- —
82-84% (cresol, 16-18%), dms., c.l., same basis lb. .1375- —
l.c.l., same basis lb. .1450- —
tanks, same basis lb. .1200- —
USP, synthetic, dms., c.l., same basis lb. .14½- .14¾
l.c.l., same basis lb. .15¼- .17¼
tanks, same basis lb. .12¾- .13
tar distilled, dms., c.l., same basis lb. .14¾- —
l.c.l., same basis lb. .15½- —
tanks, same basis lb. .13 - —
Phenolphthalein, USP or yellow bbls., dms., 2,000 lbs. lb. 1.00 —
smaller lots lb. 1.02 1.07
Phenothiazin, NF fib. dms., 18,000 lbs., frt. adjusted lb. .44 - —
smaller lots, frt. adjusted lb. 46 - —
Phenylacetaldehyde solution, 50%, bots lb. 2.35 2.65
100%, bots lb. 4.00 4.75
Phenylacetamide, 125-lb. dms., works, lb. lots lb. 1.25 - —
smaller dms lb. 1.30 - 1.60
Phenyl acetate, dms., 100-lb. lots, works lb. .50 —
Salicylate (see Salol).
Phenylalanine dextro laevo, dms., works lb. 30.00 -37.50
Phenyldiethanoamine, dms., c.l., works lb. .35½ —
l.c.l., works lb. 36½ —
Phenylethanolamine, dms., c.l., works lb. 67½ —
l.c.l., same basis lb. 68½ —
Phenylethyl acetate, dms lb. 1.45 2.70
Phenylethylphenyl acetate, bots lb. 3.75 6.00
Phenylhydrazin base, CP, bots lb. 3.00 3.07
Hydrochloride, commercial, kgs., works lb. 1.75 - —
CP, bots., works lb. 5.00 - 5.07
Phenylmethylpyrazolone, dms divd lb. 1.40 - 1.45
Phloroglucinol, CP, fib. dms., works, lb. 13.75 15.75
commercial fib. dms., works lb. 5.50 - 7.00
tech., fib. dms., works lb. 9.65 -10.75
Phosgene, 150-lb. cyls., works lb. .20½ —
10-lb. cyls., works lb. 1.50 - —
Phosphate, defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports ton. 35.00 - —
Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine long ton. 3.755 - —
70%-68%, b.p.l., c.l., same basis long ton. 4.155 - —
72%-70%, b.p.l., c.l., same basis long ton. 4.805 - —
75%-74%, b.p.l., c.l., same basis long ton. 5.805 - —
77%-78%, b.p.l., c.l., same basis long ton. 6.905 - —
finely ground, 65% b.p.l., basis 30% P_2O_5 minimum short ton 4.93 - —
68%, b.p.l., basis 31% P_2O_5 minimum short ton. 5.28 - —
70%, b.p.l., basis 32% P_2O_5 minimum short ton. 5.83 - —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations
Tennessee, brown, run-of-mine, unground, 27-28% P_2O_5 long ton. 6.45 - —
30-29% P_2O_5 long ton. 7.21 —
Phosphorus, red, amorpnous, cs lb .33 .36
tins, export lb .34 .37
Yellow, cns. lb. .30 .37
dms., c.l. lb .26 —
Oxychloride, dms., works lb. .12 - .16
Pentasulphide, dms., c.l., works lb. .11 —
l.c.l., dms., works lb .12 .13
Pentoxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .13 .14
Sesquisulphide, tins, cs., works lb. .28 - .29
dms., export lb .33½ .36
Trichloride, dms., c.l., works lb. .12 - .16
l.c.l., works lb. .13 - .17
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald lb. .21½ —
l.c.l., same basis lb. .22½- —
Phthalimide, bbls., works lb. 1.10 1.37
Pichi leaves, bgs. lb. .08 - .10
Picoline (see Alphapicoline and Betapicoline)
Pilocarpine hydrochloride, NF, bots., vials oz. 6.50 7.50
Nitrate, USP, bots, vials oz 6.25 7.25
Pimento, Jamaica, bgs. lb. .20 - .20½
Pinetar, retort, dms., incl., c.l., works, South lb .045 - —
l.c.l., same basis lb .0473- —
whse., N.Y.C. lb .0595- —
tanks, works, South lb .035 - —
Pinkroot, bls. lb. 1.55 - 1.65
Piperidine, 95%, dms., frt. equald. lb. 1.65 - —
98%, dms., same basis lb. 1.75 - —
Piperazine hexahydrate, bots. kilo. 12.50 -13.25
Pipsissewa herb (see Prince's pine).

Modern Handling Methods with ESSO SOLVENTS

Esso Solvents are handled by the most modern methods. Separate refining, storage, and shipping facilities assure you pure, *uniform* solvents . . . *prompt, efficient delivery.*

YOU CAN DEPEND ON ESSO SOLVENTS FOR

- **MODERN HANDLING METHODS** — separate tank storage, pumping lines, tank cars and trucks, are used in all Esso Solvent handling operations.
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- **UNIFORMITY** — made in modern refineries from carefully selected crude oil sources.
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Controlled high quality produces large profits with versatile, dependable Esso Solvents

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ESSO STANDARD OIL COMPANY—Boston, Mass.—New York, N. Y.—Elizabeth, N. J.—Philadelphia, Pa.—Baltimore, Md.—Richmond, Va.—Charleston, West Va.—Charlotte, N. C.—Columbia, S. C.—Memphis, Tenn.—Little Rock, Ark.—New Orleans, La.

FOR TECHNICAL ASSISTANCE

If you have a solvents problem or want further information on the specifications and characteristics of Esso Solvents—write or call our office nearest you. Our technicians will be glad to assist you.

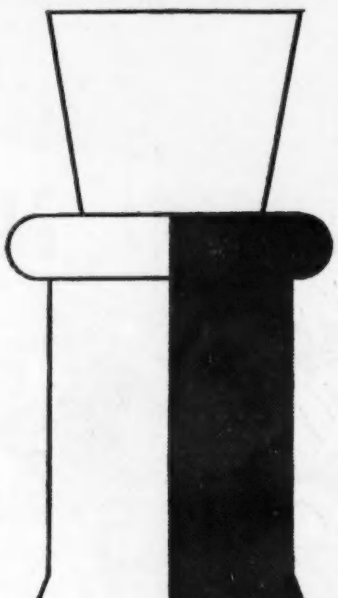
Pitch, burgundy, dms. incl., 20 or more dms., works, South. 100 lbs. 7.16 - —
whse., N. Y. C. 100 lbs. 8.03 - —
5 to 19 dms., works, South. 100 lbs. 7.36 - —
whse., N. Y. C. 100 lbs. 8.25 - —
1 to 4 dms., works, South. 100 lbs. 7.61 - —
whse., N. Y. C. 100 lbs. 8.53 - —
Coaltar, 150° F. m.p., bbls., c.l., works ton.34.00 —
l.c.l., works ton.36.00 -37.00
Cottonseed, dms., works lb. .05½- .07
Hardwood, paper bgs., c.l., works. lb. .02 —
Linseed, dms. lb. .06 Nom.
Petroleum (see Asphaltum, Mexican, Texas).
Pine gms. ex whse. East 100 lbs. 4.67 - —
Soybean, dms., works lb. .04½- .05
Plaster of paris (see Gypsum)
Platinum metal, works oz.66.00 -69.00
Pokeroot, bls lb. .13 .14
Pleurisy root, bls lb. .25 .28
Podophyllin, NF, dms lb.12.45 —
Polystyrene, colors, special, bgs., over 30,000 lbs., frt. alld lb. .30 - —
20,000-29,999 lbs., same basis lb. .30 - —
10,000-19,999 lbs., same basis lb. .30½- —
200-9,999 lbs., same basis lb. .31 .60
standard, bgs., over 30,000 lbs., same basis lb. .30 - —
20,000-29,999 lbs., same basis lb. .30 - —
10,000-19,999 lbs., same basis lb. .30½- —
200-9,999 lbs., same basis lb. .30½- —
crystals, heat-resistant, bgs., over 30,000 lbs., same basis lb. .25½- .27
20,000-29,999 lbs., same basis lb. .26½- .28
10,000-19,999 lbs., same basis lb. .27½- .29
200-9,999 lbs., same basis lb. .27½- .29
standard, bgs., over 30,000 lbs., same basis lb. .25½- —
20,000-29,999 lbs., same basis lb. .26½- —
10,000-19,999 lbs., same basis lb. .27½- —
200-9,999 lbs., same basis lb. .27½- —
Polystyrene in non-returnable fiber dms., ½c. per lb. higher.
Pomegranate root bark, bgs lb .68 .70
Poppy flowers, bls lb. .50 - 1.05
Seed, Czech, bgs lb. .15 - .16
Dutch bgs lb. .18 - .18½
Polish, bgs lb. .16 - .16¼
Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs. 9.75 - —
l.c.l., works 100 lbs.10.50 - —
liquid, 45%, dms., c.l., works, 100 lbs. 4.525 —
l.c.l., works 100 lbs. 5.025 - —
tanks, works 100 lbs. 4.20 —
solid, 90%, dms., c.l., works, 100 lbs. 9.15 —
l.c.l., works 100 lbs. 9.90 —
regular, flake, 88-92%, dms., c.l., works lb. .0815- —
l.c.l., works lb .089 —
liquid, 45% basis, dms., c.l., works, lb. .03725- —
l.c.l., same basis lb. .0450- —
tanks, same oasis lb. .0340- —
solid, 88-92%, dms., c.l., works, lb. .0755- —
l.c.l. works, lb. .0830 —
Potassium abietate lb .08 —
Acetate, USP, dms lb. .31 .36
Bicarbonate, USP, gran., dms lb. .20 .22
powd., dms lb. .22 .24
Bichromate, bgs., works lb. .13¼- .14¼
Potassium bichromate in drums, ¾c. higher.
Bitartrate (see Cream of tartar)
Borate, gran., bbls., c.l., works ton.192.00 - —
ton lots, works ton.245.50 - —
less ton lots, works ton.250.50 - —
Bromate, bbls., 1,000 lbs. or more, lb. .48 —
25-200-lb. lots lb. .50 - —
Bromide, USP, cryst., gran., bbls., kgs. lb. .33 .34
Carbonate, tech., calcined, bbls., c.l., works lb. .0780- —
l.c.l., same basis lb. .0855- —
hydrated, 83-85%, bbls., c.l., works lb. .06½ —
dms., l.c.l., works lb. .07 - —
USP, gran., bbls., dms lb. .16½ .18
powd., bbls., dms lb. .21 .23
Chromate, tech., bgs lb .25 .30
Chlorate, cryst., kgs., c.l., works lb. .06½- —
l.c.l., works lb. .06¾- —
powd., dms., kgs., c.l., works lb. .09 - —
l.c.l., works lb. .09¾ —
export, kgs., 1 to 10 tons, ex whse. lb. .12 —
NF, gran., dms lb .31 .33
Chloride, USP, cryst., dms lb. .26 - .27
gran., bbls lb. .20 .22
powd., bbls lb. .29 .32
Citrate, USP, gran., dms lb. .37½- .38½
powder, dms lb. .40¼- .41½
Cyanide, dms., works lb. .52½- .55
Fluoride, dms., works lb. .24 —
Gluconate, dms. lb. .75 - .79
Glycerophosphate, 75% solution, cbys. lb. 2.05 2.30
Guiacol sulphonate, NF, dms lb 1.80 1.95
Hydroxide, tech. (see Potash, caustic), USP, pellets, jars lb. .33 - —
Hypochlorite, liquid, cbys., dms., works 100 lbs. 3.50 —
Hypophosphite, NF, 50-lb. lots, fib. dms lb. .90 .93
Iodide, dms lb. 1.95 1.98
Manure salt, 22% K_2O, bulk, mines unit-ton. .20 - —
25% K_2O, bulk, mines unit-ton. .21 —
Metabisulphite, gran., bbls lb. .21 - —
powd., bbls lb. .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M. unit-ton. .37½ —
From, Calif unit-ton. 45½ —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
purified, dms lb. .42 .44
Perchlorate, dms., l.c.l. lb. .14 - .15
kgs., c.l., works lb. .13½- —
Permanganate, tech., dms., works, lb. .21¾ .22¾
USP, dms., works lb. .23½ .24
ex whse lb. .29 —
Persulphate, dms., c.l., works lb. .17 —
l.c.l. works lb .21 —
Phosphate, tetrabasic, bbls., wks. lb. .13 - .13½
Prussiate, red, kgs lb. .60 .63
yellow, bbls lb .21 —
kegs lb .26 —
Ricinoleate, tech., bbls lb. .11 - —

Potassium silicate, glass, bgs., c.l., works ton.200.00 - —
l.c.l. 100 lbs.15.25 —
solution, 29° Be, ret. dms., c.l., works 100 lbs. 4.25 —
l.c.l. 5 or more works. 100 lbs 5.00 —
1-4 works 100 lbs 5.50 —
52° Be, net, dms., c.l., works, 100 lbs. 4.75 - —
l.c.l. 5 or more works 100 lbs 5.50 —
1-4 works 100 lbs 6.00 —
40.5° Be, ret. dms., c.l., works, 10 lbs 5.75 —
l.c.l. 5 or more works 100 lbs. 6.50 —
1-4 works 100 lbs 7.00 —
Silicofluoride bbls., works lb 07 08
Sulphate, agricultural, dom., bulk, basis 90-95% K_2SO_4, min. 90%, works ton.32.50 —
indust, bulk works ton.36.00 —
NF, cryst., bbls lb 31 33
gran., dms lb 18½ —
powder, dms lb 17 —
Sulphocyanide, cryst., NF (see Potassium thiocyanate).
Thiocyanate, cryst., NF, dms lb 70 78
tech., works lb 45 50
Titanate, ctns., c.l., works lb 12 —
5 tons, works lb. .12¼- —
1 ton or less, works lb. .12½- .12¾
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4, 18-30% MGO, works ton.14.50 —
Potassium-sodium tartrate (see Rochelle salt)
Potassium-titanium fluoride, fib dms., works lb 45 53
Potassium-titanium oxalate, bbls., kgs lb 65 70

Potassium-zirconium fluoride, fib dms., c.l., works lb. .50 —
l.c.l., works lb. .52½- .58
Prickly ash bark, bls lb. .23 .28
Berries, bgs lb. .55 75
Prince's pine herb, bls lb. .45 - .50
Procaine hydrochloride, USP, dms., contract, 1,000 lbs. or more, works lb. 3.75 4.50
spot, 1,000 lb. lots lb. 4.50 —
smaller lots lb. 4.00 5.00
Progesterone, USP, 100 gms gm. 2.75 - —
Propane commercial grade tanks, group 3 gal. .02½- —
Propionaldehyde, dms., c.l. works lb 28½ —
l.c.l., works lb 29½- —
tanks, works lb .23 —
Propyl aldehyde (see Propionaldehyde)
Parahydroxybenzoate USP dms lb 2.30 2.40
Propylene dichloride, dms., c.l. lb. .08½- —
l.c.l. lb 09½ —
smaller containers lb 12½ —
tanks lb .07 —
Oxide, dms., c.l., frt. alld. E lb. 18½ —
l.c.l., frt. alld. E lb 19½ —
tanks, frt. equald. E lb. 16½ —
Propyleneglycol NF, dms., c.l., frt. alld. E lb 17½ —
l.c.l., same basis lb. 18½ —
tanks, same basis lb .16 —
tech., dms., c.l., frt. alld. E lb. .16½ —
l.c.l., same oasis lb. 17½ —
tanks, same oasis lb 15 —
Methylether, dms., c.l., frt. equald. lb. .18 —
l.c.l., same basis lb. .18½- —
tanks, same oasis lb .16½- —

Pitch, Burgundy—Pyrethrum Flowers

Propylthiouracil, bots., 50 kilos or more kilo.55.00 - —
smaller lots lb.35.10 -35.30
Psyllium seed, black, bgs lb. 22 23
blonde, bgs lb 19 21
husks, bgs lb. .42 .43
Pulsatilla herb bls lb 45 55
Pumice, dom., grd., course, 0, 1, 1½, 2, 3 bgs ton lots lb 03⅜ .04
Chicago, bgs., ton lots lb 04½ —
smaller lots lb 03⅞ 04¼
Italian, silk-screen, coarse bgs., ton lots lb. .03½- —
fine, bgs., ton lots lb. .04 - —
sun dried, coarse, bgs., ton lots lb. .02½- —
fine, bgs., ton lots lb. .02½- —
Pumice in obls is ½c. per lb higher
Pumpkin seed, bgs lb 18 20
Purple lake (see Red)
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works lb.11.00 -11.50
liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works gal. 9.50 - —
regular base, dms., works, gal. 9.40 - —
liquid, (30 to 1) base, 3 grams pyrethrins, per 100cc, odorless base, bbls., works gal.14.13 - —
regular base, dms., works, gal.14.03 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works lb. .42 .44
powder, 1.3% pyrethrins, bbls., works lb. .36 .38



MONSANTO PHARMACEUTICALS

Acetanilid, U.S.P.
Acetophenetidin, U.S.P.
Acetylsalicylic Acid, U.S.P. (Aspirin)
Benzoic Acid, U.S.P.
Benzyl Benzoate, U.S.P.
Caffeine, U.S.P.
Calcium Phosphate, Di
Chloral Hydrate, U.S.P.
Chloramine-T, N.F.
Ferric Phosphates
Glycerophosphates
Magnesium Phosphates
Methyl Salicylate, U.S.P.
para-Aminosalicylic Acid
Phenol, U.S.P.
Phenolphthalein, U.S.P.
Phosphoric Acid
Potassium Ammonium Phosphate
Saccharin, U.S.P.
Salicylic Acid, U.S.P.
Salol (Phenyl Salicylate)
Sodium Benzoate, U.S.P.
Sodium Phosphate
Sodium Salicylate, U.S.P.
Sulfanilamide, U.S.P.

when you need this team, depend upon MONSANTO

CAFFEINE, U.S.P.

Specifications: White powder or flakes; loss on drying at 80° C. Anhydrous powder 0.15% maximum and hydrous flakes 6.50% maximum.

Available in 100 and 25-pound fiber drums and in 10 and 5-pound boxes.

Citrated Caffeine, U.S.P., also available from Monsanto in 100 and 25-pound fiber drums and in 5-pound boxes.

ACETOPHENETIDIN, U.S.P.

Specifications: White crystalline powder; 5% retained on 100-mesh screen; solubility in ethyl alcohol, 95% (1:15) complete; melting point, 135.0° C., minimum.

Available in 200, 100 and 50-pound fiber drums and 25-pound boxes.

If your products call for the teamwork of caffeine, U.S.P., and acetophenetidin, U.S.P., place your order with Monsanto. You can depend upon Monsanto for service . . . for quality. It's easier to order from *one* source . . . get *one* delivery . . . process *one* invoice.

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Company.....
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City.....*Zone*.....*State*.....

SERVING INDUSTRY . . . WHICH SERVES MANKIND

Pyridin—Saltpeter

Pyridin, denaturing, dms., works, and frt. equald., c.l. gal. 2.00 - 2.60
l.c.l. gal. 2.00 - 2.72
refd., 2°, non-ret. dms., c.l., same basis lb. .79½- —
l.c.l., same basis lb. .80 - —
Pyridoxine hydrochloride, 100-gram lots gram. .55 - —
Pyrites, Spanish, c.i.f. Atl. ports long-ton. 8.00 - —
Pyrocatechin (see Catechol).
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines ton.11.00 -11.50
230 mesh, bulk, c.l., mines ton.12.00 - —
325 mesh, bulk, c.l., mines ton.15.00 - —
No. 3, 200 mesh, bulk, c.l., mines, ton. 9.50 - —
insecticide grade, 200 mesh, bgs., c.l., mines ton.12.00 -12.50
rubber grade, 140 mesh, bgs., c.l., mines ton.10.00 -10.50
Pyrophyllite in paper bgs., $3 to $3.50 per ton extra.
Pyroxylin scrap, opaque, amber, cs., works lb. .17 - —
black, cs., works lb. .14 - —
gray, cs., works lb. .14 - —
mixed, mottled, cs., works lb. .12 - —
white, china, ivory, cs., works, lb. .17 - —
dense, cs., works lb. .17 - —
translucent, pastels, cs., works, lb. .17 - —
transparent, colorless, cs., works, lb. .19 - —
colors, cs., works lb. .17 - —
shavings, opaque, amber, cs., works lb. .15 - —
Pyroxylin scrap, transparent, mixed, colors, cs., works lb. .14 - —
white, cs., works lb. .17 - —
USP, bots., dlvd lb. 9.54 - —

Q

Quassia chips, bls lb. .08 - .09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., lb. .14¾- .15
liq., 35% tannin, bbls., works, lb. .08 - .08½
tanks, same basis lb. .07½- —
solid, 64% tannin, bgs., c.l., duty extra lb. .09 - —
powd., 70% tannin, bgs., c.l lb. .15½- —
ordinary, solid, 63% tannin, bgs., c.l., ex dock, duty extra lb. .08½ - —
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.
Queen of the meadow root, bgs lb. .14 .15
Quercitron crystals, bbls., l.c.l lb. .33½- —
Extract, liquid, bbls., l.c.l lb. .14½- —
solid, bxs m. .28 —
Quicksilver, flasks (76 lbs.) net, 100 flask lots flask.71.00 —
smaller lots flask.73.00 -75.00
Quince seed, bgs lb .90 - 1.50
Quinidine, NF V, cryst., cns oz. 1.90 - —
powd., precip., cns oz. 1.85 - —
Sulphate, USP, cns oz. 1.25 - —
Quinine, NF, cns., 100 ozs oz. .70 - —
Bisulphate, USP, cns., 100 ozs oz. .51 - —
Dihydrochloride, USP oz. .70 - —
Ethylcarbonate, NF, cns., 100 ozs. oz. .75 - —
Quinine, hydrobromide, NF, cns., 50-oz. cns. oz. .63 - —
Hydrochloride, USP, cns., 100 ozs. oz. .63 - —
Phosphate, NF, cns., 100 ozs oz. .76 - —
Salicylate, NF, cns., 100 ozs oz. .66 - —
Sulphate, USP, cns., 100 ozs oz. .56½- —
Quinine-urea hydrochloride, NF, cns lb. .68 - —
Quinolin, dms., c.l., works lb. .50¾- —
l.c.l., works lb. .51¼- —
tanks, works lb. .50 - —

R

R salt, paste, dry basis, dms lb .70 .75
Raspberries, dried, bbls lb. 1.65 - 1.70
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.45 - 2.25
Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita
Cadmium, CP, dark shade, bbls., frt. alld., E. of Rockies lb. 3.65 - —
light shade, bbls., same basis, lb. 3.50 —
medium shade, bbls., same basis lb. 3.60 —
medium-light shade, bbls., same basis lb. 3.55 - —
orange shade, bbls., same basis lb. 3.15 - —
Red cadmium orange-red shade, bbls., same basis lb. 3.35 - —
lithopone, deep shade, bbls., same basis lb. 1.35 - —
light shade, bbls., same basis lb. 1.20 - —
maroon shade, bbls., same basis lb. 1.45 - 1.55
medium shade, bbls., same basis lb. 1.30 - —
medium-light shade, bbls., same basis lb. 1.25 - —
orange-red shade, bbls., same basis lb. 1.15 - —
Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco
Carmine, No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works lb. 1.40 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y lb. .11½ 11¾
Iron oxide, synth., bgs lb. .11½- .11¾
75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O.; Easton, Pa.; E. St. Louis lb. .05¼ .09¼
special, high color, all shades lb. .60 - —
Lake C toner alizarin, bbls., works, lb 1.05 —
Lithol toner, bbls., works lb. .65½- .80
Lithol-rubin toner, alizarin lake, bbls., works lb. 1.40 - —
Maroon, alizarin lake, 25%, kgs., works lb. .40 - .43
toner, bbls., works lb 1.35 1.50
Cadmium, deep, bbls., works lb 1.20 —
regular, bbls., works lb 1.10 —
Iron oxide, bgs., l.c.l., works lb. .04 —
MNPT toner, kgs., works lb 3.25 —
Maroons in smaller pkgs., 5c. per lb higher
Mercury oxide, tech., bbls., 10,000 lbs., works lb 2.00 - —
smaller lots, works lb 2.02 —
Metallic, bbls., works lb 02½ .02¾
Oxide (see Red, iron oxide).
Persian gulf, bgs., works lb. 06¾ 07
Para toner, bbls lb. .69½- .80
chlorinated, kgs lb 95 1.05
concentrated alizarin lake, kgs., works lb 80 —
Phloxin toner (see Red, eosin toner).
Phosphotungstic, rhodamine Y, kgs., works lb. 4.45 —
Pink lake, alizarin, bbls., works lb. 20 .25
Purple lake, kegs lb. 1.35 - —
Rose lake, alizarin, bbls., works lb. .25 .28
Spanish oxide, grade 1, bbls., c.l., ex dock lb. .05½ .05¾
l.c.l., ex dock lb .05¾- .06
ex whse., New York lb. .06½- —
grade 2, bbls., c.l., ex dock lb. .05¼- .05½
l.c.l., ex dock lb. .05½- .05¾
ex whse., New York lb. .06¼ —
Toluidin toner (MNPT), kgs., works lb. 1.01 - 1.30
Turkey, bbls., works lb. .14½ —
Tuscan, bbls., frt. equald lb. .24½- .25
Venetian, 15%, bgs., works lb. .0330- —
20%, bgs., works lb. .0360- —
25%, bgs., works lb. .0410- —
30%, bgs., works lb. .0440- —
35%, bgs., works lb. .0465- —
40%, bgs., works lb. .0490- —
Vermilion, Amer., bbls lb. .32 - —
Quicksilver, cns lb. 2.27 —
Red Precipitate, NF, powd., fib. dms lb. 2.17 2.19
Red saunders wood, powd., bbls lb. .50 - —
Rennin, NF lb. 6.50 - —
Resorcinol, resin grade, dms., c.l., works lb. .71 - —
l.c.l., works lb. .72 - —
tech., dms., c.l., works lb. .74 - —
l.c.l., works lb. .75 - —
USP, cryst., dms., works lb. 2.50 - —
powd., dms., works lb. 2.70 - —
Monoacetate, NF, dms lb 3.25 3.45
Rhatany root, bgs lb. .15 - .16
Rhubarb root, whole, cs lb. 1.25 - 1.30
powd., bbls lb. 1.40 - 1.45
Riboflavin, USP, bots., dlvd kilo.125.00 - —
Readily soluble, bots., dlvd kilo.125.00 - —
Rice bran concentrate, dms., Cedartown, Ga lb. 79 —
Rochelle salt, USP, gran., powd., dms., 5,000 lbs lb. .27½- —
smaller lots .28 - .33
Rose flowers, pale, bls lb. .35 - .40
Rosemary flowers, bls lb. 1.55 1.65
Leaves, French, bls lb. .12 - .17
Portuguese, bls lb. .07¼- .07½
Spanish, bls lb. .07¼- .07½
Rosin gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works 100 lbs. 3.50 - —
FF, dms., c.l., works 100 lbs. 5.30 - —
G, H, I, dms., c.l., works 100 lbs. 6.11 - —
K, dms., c.l., works 100 lbs. 6.11 - —
M, dms., c.l., works 100 lbs. 6.11 - —
N, dms., c.l., works 100 lbs. 6.11 - —
WG, dms., c.l., works 100 lbs. 6.40 - —
WW, dms., c.l., works 100 lbs. 6.80 - —
X, dms., c.l., works 100 lbs. 6.90 - —
Rotenone, CP, bbls., works lb.20.00 - —
tech., works lb.16.50 - —
Rottenstone, bgs., c.l., mines ton.36.00 - —
l.c.l., mines ton.45.00 - —
Ryania, 100% powd., bgs., works lb. .20 - —
Rue herb, bls lb. .35 .40
Rutin, 10 kilos, fib. dms gram. .04 - .05
smaller lots, fib. dms gram. .04½- .05¼

S

Sabadilla seed, powd., bbls lb. .60 - —
activated ground with lime, bbls lb. .35 - .36
Saccharin, USP, gran., soluble, 1,000 lbs lb. 1.50 - —
smaller lots lb. 1.60 - 1.70
powd., soluble insoluble, dms., 1,000-lb. lots lb. 1.55 - —
smaller lots lb. 1.65 1.85
Safflower, Egyptian, bls lb. .75 - .80
Saffron, Mexican, bls lb. .95 - 1.00
Spanish, USP, tins lb.17.00 -18.00
Safrol, dms lb. .85 - .90
Sage, Cyprus, bales lb. .12 - .13
Dalmatian, bls lb. 1.25 - 1.30
Greek, fancy, bls lb. .30 - .31
Spanish, bls lb. .12 - .12¼
Sago flour, bgs lb. .05½- .05¾
Saligenin, cns lb.14.00 -25.00
Salol, NF, gran., bbls., kgs lb. 1.00 —
fib. dms lb. 1.02 1.03
powdered salol, 10c. higher
Salt, rock, burlap bgs., c.l. 100 lbs. .98 - —
l.c.l. 100 lbs. 1.19 - 1.23
paper bgs., c.l. 100 lbs. .86 - —
l.c.l. 100 lbs. 1.09 - 1.12
Table, vacuum, common, fine, bgs., c.l., works 100 lbs. .98 - 1.08
l.c.l., dlvd. 100 lbs. 1.20 - 1.32
Saltcake, dom., bulk, dlvd, 100% Na_2SO_4 basis ton.22.00 - —
Saltpeter, cryst., bbls., 10 tons, 100 lbs.13.90 - —
smaller lots 100 lbs.14.15 -14.40
gran., bbls., 20 tons 100 lbs. 9.25 - —
smaller lots 100 lbs.10.50 -11.00
powd., bbls., 20 tons 100 lbs.10.25 - —
smaller lots 100 lbs.11.50 -12.00
NF, gran., dms lb. .15¾- .17¾
Saltpeter in bags, 25c. per 100 lbs. less than in barrels; in kegs, $1 more.

Check COLUMBIA'S facilities for supplying

PARA-DICHLOROBENZENE
All standard mesh sizes
25, 50, 100 and 200 lb. fiber drums

ORTHO-DICHLOROBENZENE
55 gallon drums 8,000 gallon tank cars

MONO-CHLOROBENZENE
55 gallon drums 8,000 gallon tank cars

These chlorinated benzenes are available for immediate shipment in any quantity, including mixed cars with other products. You may find many desirable advantages for your business by using Columbia facilities—at least, it's worth checking. Do it now . . . contact our nearest district office, or write Pittsburgh Plate Glass Co., Columbia Chemical Division, Fifth at Bellefield, Pittsburgh 13, Pa.

COLUMBIA CHEMICALS
CHICAGO • MINNEAPOLIS • BOSTON
NEW YORK • CINCINNATI
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CLEVELAND • PHILADELPHIA

PAINT • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Sandalwood chips, East Indies, bgs., lb. .65 - .66
powd., dms. lb. .75 - .76
Sanguinarine nitrate, bots oz. 4.75 5.50
Santonin, NF, cryst., powd., cns. kilo. No stocks.
Saponin No. 1, cns lb. 2.45 —
Sarsaparilla root, dom., bls lb. .30 - .40
Honduras, bls. lb. .40 .45
Mexican, bls. lb. .28 - .30
Sassafras bark, ord., bls lb. .35 .40
select, bls lb. .50 .55
Savory, French, bls lb. .14 .15
Spanish, bls lb. .12 .12½
Saw palmetto berries, bgs. lb. .23 .24
Scammony resin, lump, cns lb. 1.95 - 2.20
powd., cns. lb. 2.05 - 2.30
Root, bgs lb. .11 .14
Schaeffer's salt, bgs. lb .60 .67
Scopolamine hydrobromide, bots oz. 20.50 -24.50
Hydrochloride, bots oz 84.00 —
Seidlitz mixture, bbls., 5,000 lbs lb. .25¾- —
smaller lots lb. .26¼- —
dms., 100 lbs. or less lb. .27¼- .31¼
Selenium, powd., cns., 10-lb. lots lb. 2.10 - —
cs., 1,000-lb lots lb. 2.00 —
Senega root, bls lb. 1.55 - 1.65
Senna leaf, Alex., half-leaf, bls lb. .22 .24
sifting, bgs lb. .19 .21
Tinnevelly, No. 1, bls lb. .17 .24
No. 2, bls lb. .14 .19
No. 3, bls lb. .10 .11
Pods, bls lb. .12 .15
powdered, bls., bxs lb. .16 .22
Serpentaria root, bls lb. 2.20 Nom.
Sesame seed, Chinese, white, nat., bgs lb. .11 - .11½
hulled, bgs. lb. .17½- .18
Nicaragua, hulled lb. .21 - .25
natural, bgs. lb. .12 - .12¼
Salvadorean lb. .12½- .13
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .55½- —
bbls., 1,500-lb. lots lb. .56 - —
kgs., 1,500-lb. lots lb. .58 - —
refined, bgs., 1,500-lb. lots lb. .65½- —
bbls., 1,500-lb. lots lb. .66 - —
kgs., 1,500-lb. lots lb. .68 - —
bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages.
Lemon, No. 1, bgs lb. .45 - .46
No. 2, bgs lb. .44 - .45
Superfine, bgs., 10 bgs lb. .41 - .42
TN, bgs., 10 bgs lb. .39 - .40
Shellac in 1 to 9 bgs., 1c. more.
Silica amorph., dry-grd., 325 mesh, bgs., c.l., lll. works ton. 20.00 -30.00
l.c.l., works ton. 25.00 -40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton. 20.00 - —
l.c.l., works ton. 25.00 - —
99½%, 140 mesh, bgs., c.l., works ton. 12.00 - —
l.c.l., works ton. 17.00 - —
Tetrachloride, tech., dms., c.l., works lb. .14½- —
l.c.l., works lb. .18½- .20½
Silver bullion, ingots, cs oz. .73¼- —
Cyanide, fib. dms., 2,2500-oz. lots, oz. .66¾- —
1,000-oz. lots oz. .67 - —
500-oz. lots oz. .67¼- —
100-oz. lots oz. .67½ —
Nitrate, CP, cryst., bots., 2,500-lb. oz. lots oz. .46¾- —
1,000-oz. lots oz. .48 - —
500-oz. lots oz. .48¾- —
250-oz. lots oz. .49 - —
USP granular silver nitrate, 2c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. .95 - —
strong, NF, bots., dms., 1,000-oz. lots oz .90 - —
Simaruba bark, bls. lb. .85 Nom.
Skullcap herb, Eastern, bls lb. .60 - .65
Western, bls lb. .30 - .35
Skunk cabbage root, bls lb. .30 - .35
Slate flour, bgs., c.l., works ton. 11.00 -12.00
l.c.l., ex whse ton. 20.00 -60.00
Sloe berries, bgs lb. .32 - .35
Smalt, black, ctns lb. .11½- —
Blue, ctns. lb. .15½- —
Snakeroot, Canada, bls lb. .40 .45
Soapbark, bls lb. .22 - .23
crushed, bls., bbls. lb. .34 - .25
cut, foreign, bbls lb. .25 - .26
powd., bbls. lb. .29 - .30
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.35 —
l.c.l., stock points 100 lbs. 2.75 - 4.32
bbls., c.l., works 100 lbs. 2.00 - —
l.c.l., stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.10 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.25 - —
l.c.l., stock points 100 lbs. 2.65 - 4.42
bbls., c.l., works 100 lbs. 1.90 - —
l.c.l., stock points 100 lbs 3.15 - 4.92
bulk, c.l., works 100 lbs. 1.00 - —
Caustic, flake, powd., 76%, dms., c.l., works 100 lbs. 3.45 - —
l.c.l. stock points 100 lbs. 4.80 - 6.67
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.40 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.40 - 2.50
70%, sellers' tanks, works, dry basis 100 lbs. 2.50 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.60 - —
solid, 76%, dms., c.l., works 100 lbs. 3.05 - —
l.c.l., stock points 100 lbs. 4.40 - 6.27
Sal, bgs., c.l., ex car 100 lbs. 1.58 - —
l.c.l., bgs., ex whse 100 lbs. 1.78 - —
Soda-lime, USP, dms lb. .23 - .35
Sodium acetate, anhyd., dms., works lb. .10 .11½
NF, cryst., bbls., works lb. .16 - —
powder, bbls., works lb. .08 - .09
Alginate, refined, water soluble, bbls., works lb. .79 - —
semi-refined, bbls., works lb. .46 —
NF, white, powd., dms., works, ton lots lb. 1.25 - —
smaller lots lb. 1 30 1.65
Aluminate, 20,000 lbs. or more, bgs 100 lbs. 8.50 - —
under 20,000 lbs., works 100 lbs. 9.50 —
Antimoniate, bbls., c.l., dlvd. E. lb. .23¼- —
l.c.l., dlvd. lb. .24¼- —
Arsenate, dealers, dms., c.l., works, lb. .12 —
Arsenite, dealers, dms., works lb. .13¼ .14¼
solution, dms., works gal. .60 - 1.00
Benzoate, tech., bbls., dms., 100 lbs. or more lb. .39 - —
USP, bbls., dms., 100 lbs. or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.35 - —
l.c.l., works 100 lbs. 3.00 - —
powd., bgs., c.l., works 100 lbs. 1.95 - —
l.c.l., works 100 lbs. 2.60 - —
Bichromate, bgs., works lb. .09¾- .10¾
Sodium bichromate, in drums, ½c. higher.
Bifluoride, bbls., c.l., works, frt. equald lb. .13¼- —
l.c.l., same basis lb. .13½- —
Bisulphate, bulk, c.l., works, 100 lbs. 1.75 - —
dms., c.l., works 100 lbs. 2.40 - —
l.c.l., works 100 lbs. 2.90 - —

Sodium bisulphite, powd., bags, c.l., works 100 lbs. 3.75 - —
l.c.l., works 100 lbs. 4.00 —
solut. 38° bbls., c.l., works, 100 lbs. 1.10 - —
l.c.l. works 100 lbs 1.50 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works lb. .33 .34
Cacodylate, NF, bots., dms lb. 7.00 - 8.00
Carbonate (see Soda ash, Soda sal, Sodium monohydrate).
USP monohydrate, gran., dms., lb. .05¾ 06¼
Chlorate, cryst., dms., c.l., works, lb. .07½- —
l.c.l., works lb 07¾ 08¼
powd., kgs., works lb 09 —
Chloride, tech. (see Salt).
USP, dms lb. 21 - —
Chlorite, tech., dms., works lb 75 —
Chloroacetate, tech., dms., c.l., works lb. .20 —
l.c.l., dms., works lb. .21 .22
Chromate, dms., works lb. .1.½- 12½
Citrate, anhyd, dms. lb. .60 - .65
USP VIII, dms lb. .21½- .26½
USP XIII, gran., dms lb. .28 - .28½
Sodium citrate, USP XIII, powd. prices ½c higher.
Cyanate, dms., 1,000 lbs., works, lb. 1.10 - —
smaller lots, works lb. 1.25 - —
Cyanide, 96-98%, dms. lb. .16 .18
Diacetate, 33-35% acidity, bbls., works lb. .11½- .12½
anhydrous, dms., works lb. .14 .15½
Fluoride, white, 90%, bbls., c.l., works lb. .10½- —
l.c.l., works lb. .10¾- —
95%, bbls., c.l., works lb .10¾- —
l.c.l., works lb .11 —

Sodium fluoracetate, monobasic, 8-oz. tins, 50 to a case, works lb. 12.00 - —
2 to 25 tins to case, works lb. 12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb. 16.50 -21.00
tribasic, ton lots lb. 11.00 - —
Formate, bgs., c.l., dlvd 100 lbs. 7.10 - —
l.c.l. 100 lbs. 8.15 —
Gluconate, dms. lb. .83 .85
Glutamate, monobasic, dms., c.l., dlvd lb. 1.53 - —
smaller quantities, dlvd lb. 1.54 - 1.56
Glycerophosphate, NF, flake, bbls., lb. 1.65 1.80
powder, bbls. lb 1.70 1.85
solution, 75%, cbys lb. 96 1.06
Hydride, dms., works lb. 2.00 - 3.00
Hydrosulphide (see Sodium, sulphydrate)
Hydrosulphite, dms., c.l. frt. alld. lb. .21 —
l.c.l., frt. alld lb. .21½- .23½
Hydroxide, tech. (see Soda, caustic)
USP, pellets, dms lb. .23 —
Hypophosphite, NF, 50-lb. lots, dms lb. .83 .88
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald 100 lbs. 3.50 —
l.c.l., same basis 100 lbs. 3.90 —
pea cryst., bgs., metro area 100 lbs. 3.75 —
Soda, hyposulphite, crystals in bbls., 40c higher; pea crystals, dms., 50c. higher
USP (see Sodium thiosulphate)
Iodide, USP, bots., dms lb. 2.47 - 2.50
Lactate, edible, 50%, dms., cbys., works lb. .19 - —
60%, dms., cbys., works lb. .24 - —
tech., 50%, dms., cbys., works, lb. .13 - .14

Sodium metaborate, octa-hydrate, gran., bgs., c.l., works ton. 73.00 - —
l.c.l., works ton. 118 00 123.00
tetrahydrate, c.l., bbls., works. ton. 184.50 —
Sodium metaborate in bbls. $20 per ton higher.
Metal, dms., works lb. .18½- —
Metanilate, bgs. lb. .57 —
Metasilicate, anhyd., dms., c.l. 100 lbs. 4.25 - —
l.c.l., dms., works 100 lbs. 5.75 - —
pentahydrate, bgs., c.l., works, 100 lbs. 3.25 - —
l.c.l., bgs., works 100 lbs. 4.60 - —
bbls., c.l., works 100 lbs. 3.65 - —
l.c.l., bbls., works 100 lbs. 5.00 - —
Molybdate, anhyd., works lb. .54 - —
Monohydrate, bgs., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs 2 45 - —
Naphthionate, bbls lb 60 .65
Nitrate, crude, dom., bgs., c.l., works ton. 48.50 - —
bulk, c.l., works lb 45 00 —
imp., 100-lb. bgs., c.l., Atl Gulf, Pac. whse ton. 51.50 —
bulk, c.l., same basis ton. 48.00 —
USP, dms lb. .21 —
Nitrite, 90%, bbls., c.l., works, frt. equald lb. .06¾ —
West coast ports 100 lbs. 8.00 8.05
l.c.l., dlvd 100 lbs. 8.90 11.00
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 5.25 —
l.c.l., same basis 100 lbs. 5.55 7.10
hydrated, flake, bbls. c.l. works, 100 lbs. 4.25 —
l.c.l. works 100 lbs 5 50 5.75
Oxalate, neut., bgs., works lb. .09½- —
Para-aminobenzoate, dms., 1,000 lbs. or more lb. 3.50 - —
smaller lots lb. 3.65 - —

Sandalwood Chips—Sodium Para-aminobenzoate

When You Specify
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... you get the ultimate in quality—the kind of quality you would expect from America's leading producer of alkalies. But in addition, you get the fast, dependable delivery service which can only come from a company having more than one plant ... and over 200 local stock points from coast to coast. Solvay's exclusive Technical Service is also available at your request.
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SODIUM NITRITE
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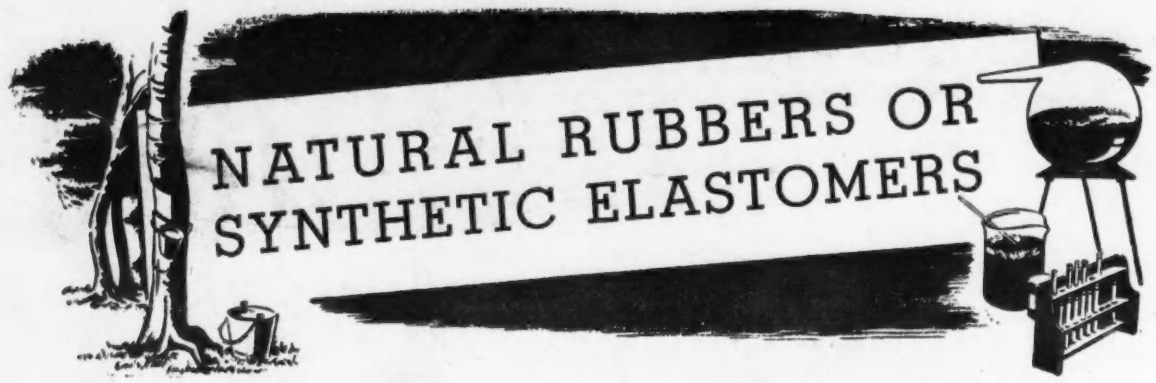
Nytron • Ammonium Bicarbonate • Para-dichlorobenzene • Ortho-dichlorobenzene • Monochlorobenzene • Methanol • Ammonium Chloride • Formaldehyde

Sodium Para-Aminosalicylate—Sulphanilamide

Sodium para-aminosalicylate, dms., 1,000 lbs. or more ... lb. 6.00 - —
smaller lots ... lb. 6.05 - 7.00
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald ... lb. .21½- —
l.c.l., same basis ... lb. .22½ .24½
pellets, bgs., c.l., same basis lb. .21 - —
l.c.l., same basis ... lb. .22 .24
powd., bgs., c.l., same basis lb. .20 —
l.c.l., same basis ... lb. .21 .23
Truckloads of pentachlorophenate of 20,000 lbs. min. available at ¼c. per lb. over carlot prices.
Perborate, USP, tech., bbls., c.l., works ... lb. .18¾ —
l.c.l., works ... lb. .19¼ —
Peroxide, dms., c.l., dlvd. E. of Miss ... lb. .18 - —
l.c.l., same basis ... lb. .18½ .19
Phenolsulphonate, USP IX, gran., dms ... lb. .38 .39
powd., dms. ... lb. .41 .42
Phosphate, dibasic, anhydr, bgs., c.l., works ... 100 lbs. 6.75 7.00
l.c.l., works ... 100 lbs. 7.25 7.50
cryst., bgs., c.l., works, 100 lbs. 3.35 3.60
l.c.l., works ... 100 lbs. 3.75 4.00
USP, dried, powd., dms., works ... lb. .20 .20½
monobasic, anhyd., bgs., c.l., works ... 100 lbs. 10.00 —
l.c.l., works ... 100 lbs. 12.85 —
tribasic, anhyd., bgs., c.l., works, frt. equald ... 100 lbs. No stocks
l.c.l., same basis ... 100 lbs. No stocks
Sodium phosphate, cryst., bgs., c.l., works, frt. equald ... 100 lbs. 3.75 - —
l.c.l. same basis ... 100 lbs. 4.25 —
Sodium phosphates in bbls., 40c. higher than bgs.
USP (see Sodium phosphate dibasic).
Prussiate, yellow, bgs ... lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald ... 100 lbs. 10.00 - —
ferric, dms., 1,500 lbs., works, lb. .30 —
smaller lots, works ... lb. .31 —
tetrabasic, anhyd., bgs., c.l., works, frt. equald ... 100 lbs. 6.90 - —
l.c.l., frt. equald ... 100 lbs. 7.40 - —
Ricinoleate, tech., bbls ... lb No stocks
Salicylate, USP, dms ... lb. .59 - .62
Sesquicarbonate, bgs., c.l., works ... 100 lbs. 1.95 —
l.c.l., dlvd. zone 1 ... 100 lbs. 3.70 - 4.10
zone 2 ... 100 lbs. 3.96 4.36
zone 3 ... 100 lbs. 4.25 4.65
zone 4 ... 100 lbs. 4.96 5.35

Sales zones are: (1) All States E. of Miss R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex., E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb., W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

bbls., c.l., works 100 lbs. 2.45 —
Sodium sesquisilicate, bbls., c.l., works ... 100 lbs. 4.15 - —
l.c.l. dlvd ... 100 lbs. 5.40 5.65
Silicate, 40°, turbid., dms., c.l., works ... 100 lbs. 1.05 - —
l.c.l., works ... 100 lbs. 1.25 1.35
tanks, works ... ton. 16.00 17.00
52°, turbid, dms., c.l., works ... 100 lbs. 1.80 —
l.c.l., works ... 100 lbs. 2.05 - 2.15
tanks, works ... ton. 32.00 —
Silicofluoride, bbls., c.l., works ... lb. 04 - —
l.c.l., works ... lb 04½- —
Stannate, dms., works, frt. alld. E. ... lb. .444 - .508
Stearate, USP, anhyd., bbls., works ... lb. .51 - .56
Sulphanilate, bbls., works ... lb. .22 - —
Sulphate, NF VII dried, gran., dms ... lb. .20 .23
tech., anhyd., bgs., c.l., works, 100 lbs. 2.00 - —
l.c.l., works 100 lbs 2.35 2.60
cryst. (see Glauber's salt).
USP, cryst., bbls ... lb. .17 .19
gran., bbls. ... lb. .15½- .17½
Sulphide, flake, bbls., c.l., works, frt. equald 100 lbs. 4.50 —
l.c.l., same basis 100 lbs. 5.00 5.25
fused, bbls., c.l., works, frt. equald 100 lbs 4.00 —
l.c.l., same basis 100 lbs. 4.50 4.75
Sulphite, anhyd., tech., powd., bgs., c.l., frt. equald ... 100 lbs. 2.50 2.75
l.c.l., same basis 100 lbs. 3.25 3.75
crystals, bgs., c.l., works 100 lbs. 3.60 —
l.c.l., works ... 100 lbs. 4.00 —
bbls., c.l., works ... 100 lbs. 4.00 —
l.c.l., works ... 100 lbs. 4.40 —
powd., bbls., c.l., works 100 lbs. 6.50 —
l.c.l., works ... 100 lbs 7.00 —
Sulphocyanide, CP (see Sodium thiocyanate).
Sodium sulphoricinoleate, bbls... lb. .51 - .61
Sulphydrate, flake, 70-72%, dms., c.l. ... lb. .05¾- —
l.c.l., works ... lb. .06¼ —
liquid, 45%, basis 100%, tanks, works ... ton. 90.00 —
Thiocyanate, CP, dms ... lb. .55 .65
tech., dms., works ... lb. .30 —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls ... lb 10 12
Titanate, ctns., c.l., works ... lb. .10 - —
5 tons, works ... lb 10¼ —
1 ton or less, works ... lb. .10½ .11
Trichloroacetate, dms. ... lb. .46 - .55
Tripolyphosphate, bgs., c.l., works ... 100 lbs. 7.25 - —
l.c.l. ... 100 lbs. 7.65 —
Tungstate, tech., kgs., dlvd., East ... lb. 1.10 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 —
Sodium-carboxymethylcellulose—See CMC
Sodium-Cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde, sulfoxylate, dlvd., dms lb. .22 22½
Sodium-sulpha drugs (see Sulpha name)
Sodium-titanium fluoride, fib. dms., c.l., works lb. .16½ —
l.c.l., works ... lb 17½ 20
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works ... lb 28 —
less 1,000 lbs., same basis lb 30 —
Solvent naphtha, coal tar, tanks, works gal. 25 .3233
high-flash, tanks, works gal. 25 .3235
Petroleum, 100° F., flash, tanks, Baytown, Tex gal. 25 —
150 F. flash, tanks, same basis gal. 25 —
Sorbitol, cryst., pellets, dms., c.l., works lb .30 —
ton lots to 5 tons, works. lb. .32 - .33
powd., dms., ton lots to 5 tons, works ... lb. .38 - .39
Solution, commercial, aqueous, dms., c.l., works ... lb. .22¼- —
ton lots, works ... lb. .23¼- —
less ton lots, works ... lb. .24 - —
tanks, works ... lb. .21½- —
regular, 70%, aqueous, dms., c.l., works lb. .16¼- —
ton lots, works ... lb. .17 - —
less ton lots, works ... lb. .17½- —
tanks, works ... lb. .15½- —
Soybean meal, 41% bulk, Decatur ... ton. 59.00 - —
50%, same basis ... ton. 69.00 - —
protein, chemically isolated, 40,000 lbs., works ... lb. .20 - —
20,000 lbs., works ... lb. .20¼- —
smaller lots, works ... lb. .20½- .24
mechanically refined, bgs., 40,000 lbs., works ... lb. .0575- —
20,000 lbs., works ... lb. .0590- —
smaller lots, works ... lb. .0605- —
Sparteine sulphate, cns ... oz. .65 - 1.25
Spearmint leaves, bls ... lb. .52 .55
Spikenard root, bls. ... lb 40 45
Spruce extract, liq., reg., tanks, works lb. 01¾ —
powd., super, bgs., c.l., works, lb. .05¼ —
Squaw vine, leaves, bls ... lb. .33 38
Squill, red, fortified, powd., bbls, boxes ... lb. 1.50 1.60
White, bls. ... lb. .11 .13
powd., bbls., bxs ... lb. .16 .18
St. Ignatius beans, bgs ... lb No stocks.
St. John's bread, edible, bls ... lb. .13 - .18
Stainless steel flake, dry, dms., works ... lb. 1.50 —
paste, dms., works ... lb. 1.25 - —
Stannous chloride (see Tin chloride, stannous).
Star root (see Helonias root).
Stargrass root (see Aletris root).
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 5.52 - —
Chicago ... 100 lbs. 4.87 - —
l.c.l. ... 100 lbs. 5.67 - —
powd., paper bgs., c.l. ... 100 lbs. 5.63 - —
Chicago ... 100 lbs. 4.78 - —
l.c.l. ... 100 lbs. 5.78 - —
Prices for corn starch in cotton bags, 12c. to 15c. per 100 lbs higher.
Potato, bgs., c.l., Idaho, works lb. .05 - —
l.c.l., spot ... lb. .07 - .07¼
bgs., c.l., Maine, works ... lb. .04¾- —
l.c.l., spot ... lb. .06½- .06¾
Rice, bgs ... lb. .12½- —
Sweetpotato, bgs., c.l. ... lb. No stocks.
Wheat, bgs. ... lb. .0606- .0658
Stavesacre seed, bgs ... lb. .40 .41
Stearin, oleo (see Oleostearin).
Stillingia root, bls. ... lb. .35 .38
Stoneroot, bls ... lb. .07½- .08
Storax, USP, cs ... lb. 1.50 1.60
Stramonium leaves, bgs ... lb. .19 .20
Seed, bgs ... lb. .20 .21
Streptomycin, hospitals, vials ... gram. .60 —
wholesalers, vials ... gram. .48 —
Strontium bromide, NF, cns., dms., lb. .62 —
Carbonate, 90%, dms ... lb. .15½- .16¼
Chloride, tech., bbls ... lb. .22 .24
Chromate, bbls., works ... lb. .50 - —
Iodide, jars, 25 lbs ... lb. 3.60 - —
Nitrate, bbls., c.l., works ... lb. .09¼- —
l.c.l., works ... lb. .10¼- —
Oxalate, bbls., works ... lb. .42 .44
Salicylate, NF, dms ... lb. 1.25 1.32
Sulphate, air-floated, 80% 325 mesh, bgs., works ... ton. 56.70 66.15
Strontium-calcium sulphide, phosphorescent, dms., works ... lb. 2.50 2.65
Strophanthin, NF, bots ... oz. 39.00 —
Strophanthus seed, Kombe, bgs ... lb. 3.00 3.25
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Phosphate, NF, 100 ozs ... oz. 1.14 - —
Sulphate, USP, powd., cns., 100 ozs. oz. 1.00 - —
Styrene, monomer, tanks, works lb. .15 - —
Styrolyl acetate, bots ... lb. 2.50 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works lb. .60 —
tech., bbls., l.c.l., works ... lb. .55 —
Sugar coloring (see Caramel coloring)
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms ... lb. 4.25 - 4.60
Sulphabenzamide-sodium, dms ... lb. 4.25 - 4.60
Sulphadiazin, USP, crystals, free flowing, dms ... lb. 11.25 -11.75
microcrystals, 99%, not over 10 microns, dms ... lb. 10.50 -11.00
powder ... lb. 10.25 -10.75
Sulphadiazin-sodium, USP, granules, free flowing, dms ... lb. 12.25 -12.75
powder ... lb. 11.25 -11.75
Sulphaguanidin, USP, dms ... lb. 4.50 - 5.00
Sulphamerazin, USP, micro crystals, 99.9%, not over 10 microns, dms ... lb. 10.55 -11.05
powder, dms ... lb. 10.25 -10.75
Sulphamerazin-sodium, USP, dms., lb. 11.25 -11.75
Sulphamethazine, micro crystals ... lb. 8.80 - 9.30
powder ... lb. 8.50 - 9.00
Sulphanilamide, USP, crystals, free flowing ... lb. 1.40 - 1.60
microcrystals ... lb. 1.55 - 1.75
powder ... lb. 1.30 - 1.50



You can depend on Stauffer's CRYSTEX
INSOLUBLE SULPHUR

Crystex Insoluble Sulphur is widely used with natural rubber and synthetic elastomers. Like ordinary sulphur, it is the vulcanizing agent. Unlike the regular soluble sulphur, Crystex has the special property of not blooming on uncured stocks. Crystex replaces ordinary rubbermakers' sulphur in tire carcass stocks, white sidewalls, valve-patch frictions, re-treads and other repair stocks. There is a place for it in shoe soles. The stability of the sulphur dispersion in a naphtha cement is improved when Crystex is employed. Cord-dipping dispersions are made better with Crystex in the place of ordinary sulphur. It is very finely divided to provide the desired distribution of the sulphur in the milled stock. Insoluble sulphur is a metastable form; that is, the conversion to the stable soluble form occurs at the usual vulcanizing temperatures. Compared with regular-sulphur stocks, those compounded with Crystex may give slightly faster or somewhat "tighter" cures.

Crystex Insoluble Sulphur offers Flexibility. Being 99½% pure, with an 85% insoluble sulphur content, it is used straight for maximum control of sulphur-blooming. However, in some particular rubber stocks, the desired results can be obtained with a lower insoluble sulphur content. Blending Crystex with Flowers of Sulphur (which normally tests 30% insoluble sulphur) is an economical and convenient method to lower the insoluble sulphur content.

The chief reason why more CRYSTEX Insoluble Sulphur is being used each year is that rubber manufacturers find that its use gives them a better product . . . economically. Write for CRYSTEX circular which explains in detail its various applications.

OTHER PRODUCTS
BHC (Benzene Hexachloride)
Borax
Boric Acid
Carbon Bisulphide
Carbon Tetrachloride
Caustic Soda
Chlorine
Citric Acid
Commercial Rubbermakers' Sulphur, Tire Brand, 99½% Pure
Cream of Tartar
DDT (Dichloro Diphenyl Trichlorethane)
Refined Rubbermakers' Sulphur, Tube Brand
Silicon Tetrachloride
Sodium Hydrosulphide
Sulphur (Specially processed for all industrial uses)
Sulphur Chloride
Sulphuric Acid
Tartaric Acid
Textile Stripper
Titanium Tetrachloride
Toxaphene (Chlorinated Camphene)
2,4-D (Acid Isopropyl Ester, Amine Salts)

Stauffer CHEMICALS SINCE 1885
STAUFFER CHEMICAL CO.
420 Lexington Avenue, New York 17, N. Y. · 221 North LaSalle Street, Chicago 1, Illinois
624 Wilshire Boulevard, Beverly Hills, Calif. · 636 California Street, San Francisco 8, Calif.
424 Ohio Bldg., Akron 8, O. · Apopka, Fla. · N. Portland, Ore. · Houston 2, Tex. · Weslaco, Tex.

Sulphanilamidoquinoxaline, veterinary, dms lb. 9.00 - 9.25
Sulphapyridin, NF powd. bots., tins, lb. 7.00 - 7.50
Sulphapyridin-sodium, powd., bots., dms lb. 7.50 - 8.00
Sulphathiazole, USP, crystals, free flowing lb. 3.50 - 4.00
micro crystals, 99.9%, not over 10 microns, dms lb. 3.25 - 3.35
powder, dms lb. 3.00 - 3.30
Sulphathiazole-sodium, USP, dms., lb. 3.00 - 3.30
Sulphur, com'l, rubbermakers, bgs., c.l., works 100 lbs. 1.75 - —
l.c.l., works 100 lbs 2.10 2.45
crude c.l. bulk mines, contract, long ton 18.00 —
f.o.b. ship for domestic and Canada, long ton 19.50 —
flour, com'l, 90½%, bgs., c.l., works 100 lbs. 1.60 —
l.c.l., works 100 lbs 1.95 2.20
precipitated, USP, bbls., kgs lb 27 .29
refined, flour, light refined, USP, bgs., c.l., works 100 lbs. 3.00 - —
l.c.l. works 100 lbs. 3.35 3.70
heavy, bgs., c.l., works 100 lbs. 2.80 —
l.c.l works 100 lbs 3.15 3.50
flowers, USP, bgs., c.l., works 100 lbs. 3.85 - —
l.c.l., works 100 lbs 4.20 4.60
Sulphur flowers in bbls. 75c higher
rock, bgs., c.l. works 100 lbs 2.40 —
l.c.l works 100 lbs 2.75 3.10
rolls, bgs., c.l., works 100 lbs 2.70 —
l.c.l., works 100 lbs 3.05 3.70
rubbermakers' bgs., c.l., works, 100 lbs. 2.35 —
l.c.l., bgs., works 100 lbs 2.70 3.05
Chloride, 55-gal dms., c.l., works lb 03¼ —
l.c.l., works lb 04¼ —
10-gal. dms., l.c.l., works lb 06¼ —
Dioxide, liquid, com'l, cyls., works lb. 09 —
multi-unit cars, works lb 0555 —
tanks, works lb 045 —
refrigeration cyls., l.c.l., dlvd lb .18 —
Sumac bark, 28% grd., bgs., ex dock ton.65.00 -86.00
Extract, No. 1, bbls., 25% lb. 10½ - —
No. 2, bbls., 25% lb. 09 - —
crystals, bbls lb 40 —
stainless, bbls. lb. 14½ —
Leaf, 28% grd., bgs., ex-dock, ton.67.00 -68.00
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk Baltimore unit-ton. 78 - —
Carteret, N. J. unit-ton. 73 - —
triple, 48% or more, a.p.a., pulv., bulk, Tampa, Fla. unit-ton. .83 - —
Prices on 48% triple superphosphate in other states and D. C. are per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c per unit-ton higher than pulverized
Sweet basil, bls lb. 1.10 - 1.25

T

Talc, dom., ordinary, grd., Calif., bgs., c.l., works ton.25.00 -35.00
Vermont, bgs., c.l., works ton.14.00 - —
l.c.l., works ton.17.50 - —
fibrous, New York, off-color, grd., bgs., c.l., works ton.24.00 - —
l.c.l. ton.26.50 -28.00
98.5-99.5%, 325 mesh, bgs., c.l., works ton.23.00 -28.00
l.c.l., works ton.25.00 -32.00
imp., Canada, grd., bgs., c.l., mines ton.12.50 -35.00
Tallow, inedible, extra, loose, c.l., dlvd lb. .06½ - —
fancy, loose, same basis lb. .06¾ - —
special, loose, same basis lb. .06¼ - —
sulphonated, 25%, dms lb. .06 - .06½
50%, dms lb. .08½ - .09
Tamarind, W. I., bbls lb. .10 - .15
kegs keg.10.00 - —
Tankage, animal, feeding, 9-11% ammon., bulk unit-ton. 8.00 - —
Chicago unit-ton. 9.00 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago unit-ton. No stocks.
10-11% ammon., 15% b.p.l., bulk unit-ton. No stocks.
Tansy leaves, bls lb. .24 - .30
Tapioca flour, high grade, bgs. lb. .08 - .08½
medium grades, bgs lb. .07¼ - .07½
low grades, bgs lb. .06 - .07
Java, bgs lb. No stocks.
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .41 - —
l.c.l., same basis gal. .44 - —
tanks, same basis gal. .33 - —
25-28%, dms., c.l., works gal. .46 - —
l.c.l., same basis gal. .51 - —
tanks, same basis gal. .40 - —
30-33%, dms., c.l., same basis. gal. .60 - —
l.c.l., same basis gal. .63 - —
tanks, same basis gal. .52 - —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tara pods, bgs., c.l., ex dock U. S. ports long ton. No prices.
powd., bgs., c.l., same basis long ton.225.00 Nom.
Tarragon herb, bgs lb. .45 - .50
Leaves, bgs lb. .75 - .80
Tartar emetic, tech., gran. or powd., bbls., kgs lb. .48 - —
dms. lb. .47 - .51
USP, powd., bbls., dms., kgs lb. .51 - .54
Terpin hydrate, com'l, bbls., c.l. lb. .24½ - —
l.c.l. lb. .25 - .25½
NF, cryst., bbls., dms lb. .75 - —
powd., bbls., dms lb. 80 - —
Terpineol, Alpha (see A).
com'l, dms., c.l., South lb. .13½ - —
l.c.l., South lb. .14 - —
tanks, South lb. .13 - —
prime, dms lb. .33 - .60
Terpinglycol ether, dms., c.l., works. lb. .19½ - —
l.c.l., works lb. .20 - —
tanks, works lb. .19 - —
Terpinyl acetate, extra, cns., dms lb. .60 - 1.03
prime, cns., dms lb. .33 - .35
Terra alba (see Gypsum).
Testosterone, USP, 100 gms gm. 3.75 - —
Propionate, USP., 100 gms gm. 3.75 - —
Tetrachloroethane, dms., works lb. .08 - .08½
Tetrachloroethylene, USP, 55-gal. dms., works lb. .20½ - .21½
smaller dms., works lb. .23½ - .23
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works. lb. .70 - —
Pyrophosphate, 40% cns., dms., works lb. .65 - .70
Tetraethylenepentamine, dms., c.l., works lb. .51½ - —
l.c.l., works lb. .52 - —
tanks lb. .50 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb.12.50 -13.00
sulphate, 99%, bots., dlvd lb.10.50 -13.00

Theobromine, fib. dms lb. 4.50 - 4.55
Salicylate, fib. dms lb. 4.00 - 4.05
with sodium acetate, USP, dms lb. 3.65 - 3.70
Sodio-salicylate, fib. dms lb. 2.90 - 2.93
Theophylline, USP, 100-lb. dms lb. 5.50 - —
Thiamine hydrochloride, USP, dms., 100 grams kilo.160.00 —
Mononitrate, dms., 100 grams kilo.160.00 —
Thiocarbanilide, dms lb. .34 .35
Thiodipropylamine (see Phenothiazine).
Thiouracil, dms., works lb 5.50 5.60
Thiourea, tech., dms., c.l., works lb .42 —
l.c.l., works lb. .44 —
Thorium nitrate, cs., works lb. 3.50 —
Threonine, dextro-laevo, 100 grams 115.00 —
Thyme, French, bgs lb. .15½ - .16
Spanish, bls lb. .09 - .09½
Thymol, USP, kgs lb. 3.65 3.75
Iodide, NF, dms lb 6.80 6.90
Timbo root (see Cube root)
Tin chloride (stannous), anhyd., dms., works lb. .7133- .7253
Crystals, hydrous, bgs., bbls., works lb. .58¾ - —
Metal lb. .77⅞ - —
Oxide, bbls. lb. .83 - .84
Sulphate, stannous, bbls., kgs., works lb. .8309- .8509
Tetrachloride, anhyd., dms., works lb. .47½ - .48½
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd lb 19½ —
l.c.l., dlvd lb 20 20½
chalk-resistant, bgs., c.l., dlvd. lb. 19½ —
l.c.l., dlvd lb 20 20½
plain, bgs., c.l., dlvd lb 19½ —
l.c.l., dlvd lb 20 20½
rutile, natural, granular, bgs., c.l., works lb .05 —
5-ton lots, works lb .05¼ —
Titanium dioxide, milled, bgs., c.l., works lb. .05¼ - —
5-ton lots, works lb 05½ —
nonchalking, bgs., c.l., dlvd. E. lb. .21½ - —
l.c.l., dlvd. E lb .22 .22½
Hydride, cns., works lb 7.00 8.00
Pigment, calcium-rutile, base, bgs., c.l., dlvd lb .07½ .07¾
l.c.l. dlvd lb .08 .08¼
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast c.l. dlvd., l.c.l., ex whse ½c higher
Tetrachloride, CP, 55 gal. dms lb. .57 .58
smaller pkgs., works lb 65 1.22
technical, 5-gal. dms., works lb .32 —
smaller pkgs. works lb 40 1.00
Tolu balsam, cns., dms lb. 2.50 2.75
Toluene (see Toluol)
Tolidin base (see Orthotolidin).
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa gal. .23½ - —
Birmingham dist. gal. .22¼ - —
Chicago district gal. .24½ - —
Cleveland district gal. .24¾ - —
Dangerfield, Tex. gal. .24½ - —
Geneva, Utah gal 19 - —
Hamilton, Ohio gal. 24 - —
Johnstown, Pa gal. .22 - —
Lackawanna, N. Y. gal. 23 - —
Philadelphia, Pa gal. .23½ - —
Pittsburgh district gal. .22 - —
Sparrow's Point, Md gal. .23½ - —
St. Louis Mo gal. .27 - —
Syracuse, N. Y gal. .22½ - —
Terre Haute, Ind gal. .25½ - —
Wyandotte, Mich gal. .25 - —
Youngstown, Ohio gal. .22½ - —
Toluol, petroleum, industrial, 2°, tanks, works—
Albany, N. Y. gal. 28 - —
Bayonne, N. J. gal. 26 - —
Baytown, Tex. gal. 25 - —
Chicago, Ill. gal. 27 - —
Detroit, Mich. gal. 28 - —
Philadelphia, Pa. gal 28 - —
Providence, R. I. gal. 28 - —
Wood River, Ill. gal. 25 - —
Tonga, 50% bark and vine, bls. lb 80 .95
Tonka beans, Angostura, cks lb 1.75 1.80
Brazilian, cs lb. 1.00 1.15
Surinam, cs. lb. 1.00 1.15
Toxaphene, dms., works, c.l lb 20 —
truckloads, works lb 20 —
ton to truckloads, works lb 23 —
less than tons, works lb. 26 —
Totaquine, USP, 100-oz. lots oz. 42 —
Triacetin, dms., dlvd lb 35½ —
Tributyl citrate, dms. lb 41 43
smaller containers lb. 46 .52
Phosphate, dms., c.l., frt. alld lb 56½ - —
l.c.l. lb 57½ - —
smaller containers lb. 71 —
Tributylamine, dms., c.l. works lb 78 —
l.c.l., works lb 81 —
Trichlorbenzene, dms., c.l., works, frt. alld. or equald lb 10 —
l.c.l lb 11 - —
tanks lb 08½ - —
Trichlorethane, dms., c.l., works lb. 13 - —
l.c.l., works lb. 13½ - —
tanks, works lb. 11½ - —
Trichloroethylene, dms., c.l., or truckload, works, frt. equald. lb. .10¼ - —
l.c.l., same basis lb. .11 - —
tanks, same basis lb. .09¾ - —

EASTMAN Stabilizers

Eastman stabilizers are widely used throughout the chemical and allied industries. For your convenience we have prepared the following chart showing those fields in which these antioxidants are of particular value.

	TENAMENE 20*	HYDROQUINONE MONO-METHYL ETHER	TEQUINOL†	2,5 DI-TERTIARY BUTYL HYDROQUINONE
ACRYLATES			■	
ACRYLONITRILES			■	
ALDEHYDES			■	
ALKYD RESINS		■		
ANIMAL FATS & OILS	■		■	■
CHLORINATED HYDROCARBONS		■		
COSMETICS	■	■		■
ESSENTIAL OILS			■	
FISH OILS			■	
PAINT VEHICLES		■		
PARAFFIN WAX	■			
POLYMERIZATION INHIBITOR			■	■
PETROLEUM OILS & WAXES			■	
POLYMERIZATION REGULATOR & SHORT STOP			■	■
PYRETHRUM INSECTICIDES	■			
SULFATED OILS	■			■
SYNTHETIC & NATURAL LATEX	■			
SYNTHETIC RUBBER	■			
WOOD ROSIN	■			
VEGETABLE FATS & OILS			■	■

* TENAMENE 20 — EASTMAN technical butylated hydroxyanisole

† TEQUINOL — EASTMAN technical hydroquinone

Tennessee Eastman Corporation also manufactures a number of food grade antioxidants. These are available under the trade name "Tenox."

Our antioxidant laboratories and staff are fully equipped to analyze oxidation and stability problems. We welcome the opportunity of working with you.

For additional information and samples of EASTMAN stabilizers write to TENNESSEE EASTMAN CORPORATION (Subsidiary of Eastman Kodak Company), KINGSPORT, TENNESSEE.

EASTMAN INDUSTRIAL CHEMICALS

SALES REPRESENTATIVES: New York — 10 E. 40 St.; Cleveland — Terminal Tower Bldg.; Chicago — 360 N. Michigan Ave. West Coast: Wilson & Geo. Meyer & Co., San Francisco — 333 Montgomery St.; Los Angeles — 4800 District Blvd.; Portland — 520 S. W. Sixth Ave.; Seattle — 1020 Fourth Ave., So.

Trichloroethylene—Zircon

Trichloroethylene, tanks, frt. alld., zone 1 ..... lb. .10½ - —
Zone 2 ..... lb. .11 - —
Zone 3 ..... lb. .11½ - —
Zone 4 ..... lb. .11½ - —
Trichloroethylene, dm., c.l., prices ½c. higher, l.c.l., 1¼c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. H., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricholine citrate, 65% solut., ret., cbys., works, frt. adjusted ..... lb. 2.15 - —

Tricresyl phosphate, coaltar, dms., c.l., dlvd. ..... lb. .30½ - —
l.c.l., dlvd. ..... lb. .31 - —
tanks, dlvd. ..... lb. .29 - —
petroleum, dms., c.l., dlvd. ..... lb. .30½ - —
l.c.l., dlvd. ..... lb. .31 - —
tanks, dlvd. ..... lb. .29 - —

Triethanolamine, dms., c.l., frt. alld. E ..... lb. .23 - —
l.c.l., same basis ..... lb. .24 - —
tanks, same basis ..... lb. .21½ - —

Triethylamine, dms., c.l., works, frt. alld. ..... lb. .31½ - —
l.c.l., same basis ..... lb. .32½ - —
tanks, same basis ..... lb. .30 - —

Triethyl citrate, dms ..... lb. .34 - .36
smaller containers ..... lb. .39 - .45
Phosphate, dms., works, c.l. ..... lb. .38 - —
dms., l.c.l., same basis ..... lb. .39 - —
tanks, same basis ..... lb. .37 - —

Triethyleneglycol, dms., c.l., frt. alld., E ..... lb. .20½ - —
l.c.l., same basis ..... lb. .21½ - —
tanks, same basis ..... lb. .19 - —

Triethylenetetramine, dms., c.l., works ..... lb. .51½ - —
l.c.l., works ..... lb. .52 - —
tanks ..... lb. .50 - —

Trimethylamine, 25%-40%, dms., c.l., works, frt. equald., basis 100% ..... lb. .38 - —
l.c.l., works, frt. alld., basis 100% ..... lb. .38½ - —
tanks, works, frt. equald., basis 100% ..... lb. .33 - —

Trimethylhexanol, dms., c.l., works. ..... lb. .29½ - —
l.c.l., works ..... lb. .30 - —
tanks, works ..... lb. .28 - —

Tripentaerythritol, bgs., l.c.l., works ..... lb .36 —

Triphenyl phosphate, bbls., c.l., frt. equald. ..... lb. .31 - —
l.c.l., frt. equald ..... lb. .32 - —

Triphenylguanidine, bbls., works ..... lb. .90 - —

Tripoli, air-floated, bgs., c.l., works. ..... lb. .0175 - —
double-grd., bgs., c.l., works ..... lb. .016 - —
single-grd., bgs., c.l., works ..... lb. .015 - —

Trisodium fluoroacetate (see sodium fluoroacetate tribasic).

Trisodium phosphate (see Sodium phosphate, tribasic).

Trypsin, 1:25, dms., works ..... lb. 2.30 - —
1:50, dms., works ..... lb. 4.25 - —
1:75, dms., works ..... lb. 5.50 - —
1:100, fib. dms., works ..... lb. 5.50 - —

Tryptophane, dextro-laevo, fib. ctns., works ..... kilo. 207.00 - 242.00

Tuba root (see Cube root).

Tungsten metal, powd., 99.9%, dms., works ..... lb 4.75 - —
Oxide, kgs., works ..... lb. 2.85 - —

Turmeric root, Alleppey, bgs, afloat. ..... lb. .35 - .35½
Haitian, bgs ..... lb. No stocks.
Jamaica, bgs ..... lb. .10½ Nom.
Madras, bgs ..... lb. .18 - .19

Turpentine, gum (see Naval Stores Protective Coatings market).
Sulphate, ret. dms., East ..... gal. .23 - —

Turpentine, wood dest.-dist., dms., incl., c.l., works, South ..... gal. .40 - —
l.c.l., same basis ..... gal. .41 - —
N. Y. whse ..... gal. .47 - —
tanks, works, South ..... gal. .27½ - —
steam-dist., dms., incl., c.l., works ..... gal. .50 - —
l.c.l., works, South ..... gal. .56 - —
ex whse., NYC ..... gal. .64 - —
tanks, works ..... gal. .34 - —

Tyrothricin, bots. ..... gram. 1.00 - 1.10

U

Urethane, USP, dms ..... lb. 1.50 - —

Unicorn root, false (see Helonias root). True (see Aletris root).

Uranium oxide, black, bgs ..... lb 2.55 - —
yellow, kgs. ..... lb 1.65 - —

Urea, dom., 46% N, bgs., c.l., wks. ..... lb .04½ - —
l.c.l., works ..... lb .05 - —
fertilizer compound, 42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex. and east ..... ton. 94.00 - —
bulk, distributors, c.l., 40 tons, frt. alld. Colo., Mont., Wyo., and west ..... ton. 103.50 - —
30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ..... ton. 98.00 - —
40 tons, distributors, frt. alld. Colo., Mont., Wyo., and west ..... ton. 107.15 - —

Urea-ammonia liquor, A and B grades, N basis, Belle, W. Va ..... ton. 125.00 - —
C and D grades, same basis. ..... tn. 123.50 - —
37 grade, same basis ..... ton. 147.50 - —

Uva ursi leaves, bls ..... lb .10 - .14

V

Valerian root, Belgian, NF, bls ..... lb. .40 - .45

Valine, dextro-laevo, dms., works ..... lb. 22.50 - 27.50

Valonia beards, bgs., ex dock ..... ton. No stocks.

Cups, bgs., ex dock ..... ton. 52.00 - —

Extract, powd., bgs., ex dock, duty extra ..... lb. .14 - —

Vanadium pentoxide, CP, bgs., cns., works ..... lb. 7.00 - —
tech., dms., works ..... lb. 1.00 - 1.06

Vanilla beans, Bourbon, tins ..... lb. 4.50 - 4.75
Mexican, cuts, tins ..... lb. 6.25 - 6.50
whole, tins ..... lb. 7.50 - 7.75

Vanillin, ex eugenol, tins, 25 lbs. lb 4.00 —
smaller lots ..... lb 4.05 —
ex guaicol, tins, 25 lbs. ..... lb 3.00 —
smaller lots ..... lb 3.05 3.15
ex lignin, tins, 25-lb. lots ..... lb 3.00 —
smaller lots, tins ..... lb. 3.05 3.15

Vinyl acetate, 55-gal. dms., works ..... lb. .16 - .16½
5-gal. cns., works ..... lb. .30 - —
tanks, works ..... lb. .15 - —

Vinyl chloride (see Trichloroethane).

Ether (see Ether, divinyl).

Vinylpyridin, ret. dms., works ..... lb. 1.50 - —

Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units ..... 1,000,000 units. .025 - —
lots of 1 billion USP units. ..... 1,000,000 units. .03 - —
lots of less than 1 billion USP units ..... 1,000,000 units. .035 - —
in neutral vegetable oil, 400,000 or 1,000,000 D units per gm., bots., lots of 10 billion USP units ..... 1,000,000 units. .02 - —
lots of 1 billion USP units. ..... 1,000,000 units. .025 - —
lots of less than 1 billion USP units. 1,000,000 units. .03 - —

Vitamin A, natural, 200,000 to 350,000 A units per gm., bots., cns., dms., lots of 500 million units or more ..... 1,000,000 units. .18 - —
lots of less than 500 million units ..... 1,000,000 units. .22 - —
351,000 to 450,000 A units per gm., bots., cns., dms., lots of 500 million units or more ..... 1,000,000 units. .20 - —
lots of less than 500 million units ..... 1,000,000 units. .24 - —
451,000 or more A units per gm., bots, cns., dms., lots of 500 million units or more ..... 1,000,000 units. .22 - —
lots of less than 500 million units ..... 1,000,000 units. .26 - —

Prices above are based on the USP XIII method of conversion. E x 1894.

300,000 to 350,000 A units per gm., bots., cns., dms., lots of 500 million units or more ..... 1,000,000 units. .21½ - —
lots of less than 500 million units ..... 1,000,000 units. .24½ - —
351,000 to 450,000 A units per gm., bots., cns., dms., lots of 500 million units or more ..... 1,000,000 units. .24 - —
lots of less than 500 million units ..... 1,000,000 units. .27 - —
451,000 or more A units per gm., bots., cns., dms., lots of 500 million units or more ..... 1,000,000 units. .26½ - —
lots of less than 500 million units ..... 1,000,000 units. .29½ - —

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected.

A, natural, concentrates (see Oil, fishliver).

A, synthetic, acetate, 1,000,000 A units, per gm ..... 1,000,000 units. .30 - —

A, synthetic, palmitate, 300,000 A units per gm., frt. adjstd. 1,000,000 units. .30 - —

D_2 (see Calciferol).

B_1 (see Thiamine hydrochloride).

B_2 (see Riboflavin).

B complex, natural (see Rice bran and Yeast).

B_6 (see Pyridoxin).

B_{12}, vials, 25, 100 and 500 milligrams ..... milligram. 2.52 - —

C (see Acid, ascorbic).

D (see Oils, codliver and fishliver, Calciferol and Viosterol).

E (see Alphatocopherol and Oil, wheatgerm).

G (see Riboflavin).

P-P (see Acid, nicotinic, and Nicotinamide).

H (see Biotin).

Violet, methyl toner (see Blue, methylviolet toner).

V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls ..... lb. 1.50 - 1.75

Tree bark, bls ..... lb .55 - .75

Wattle bark, fair average, or E. Afr., bgs., ex dock ..... ton. 65.00 - —
merchantable, bgs., ex dock ..... ton. 62.50 - —
extract, liquid, 35% tannin, bbls., works ..... lb. .07½ - .08
solid, E. Afr., 61% tannin, ex dock, duty extra ..... lb. .06¾ - —
S. Afr., 62% tannin, ex dock, duty extra ..... lb. .06¾ - —

Wax, amorphous (see Wax, microcrystalline).

Bayberry, bgs., spot ..... lb. .44 - .45

Bees, bleached, USP, bricks, cs. ..... lb. .62 - .63
slabs, bgs ..... lb. .61 - .62
crude, African, bgs ..... lb. .44 - .45
Brazilian, bgs ..... lb. .52 - .53
Cent. American, bgs ..... lb. 48 - .50
refined, yellow, bricks, cs ..... lb. .52 - .53
slabs, bgs. ..... lb. .51 - .52

Candelilla, crude, bgs ..... lb. .46 - .47
refined, bgs ..... lb. .49 - .50
Powdered candelilla, 20 mesh, 5c. per lb extra; 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, bgs., ton lots ..... lb. No stocks.
North Country, No. 2, ton lots ..... lb. .83½ - .84
No. 3, crude, bgs., ton lots ..... lb. .76 - .77
refined, bgs., ton lots ..... lb. .82 - .83
yellow, No. 1, bgs., ton lots ..... lb. 1.03 - 1.05
No. 2 ..... lb. 1.01 - 1.03
Powdered carnauba price differentials same as powdered candelilla.

Japan, bgs ..... lb. .70 - .75

Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000 lbs., group 3, works ..... lb. .14 —
Less than 20,000 lbs., same basis ..... lb. .15 —
black, ctns., 20,000 lbs., same basis ..... lb. .12½ —
Less than 20,000 lbs., same basis ..... lb 13½ —
white, ctns., 20,000 lbs., same basis ..... lb. .25 - —
Less than 20,000 lbs., same basis ..... lb 26 —
180°-185° m.p., ASTM, black, ctns., 20,000 lbs., same basis ..... lb. .14½ —
Less than 20,000 lbs., same basis ..... lb. 15½ —
amber, ctns., 20,000 lbs., same basis ..... lb. .16 - —
Less than 20,000 lbs., same basis ..... lb. .17 —

Wax, microcrystalline, white, ctns., 20,000 lbs., same basis ..... lb. .27 - —
Less than 20,000 lbs., same basis ..... lb. .28 —
190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis ..... lb. .20½ - —
Less than 20,000 lbs., same basis ..... lb. .21½ —
black, ctns., 20,000 lbs., same basis ..... lb. .19 - —
Less than 20,000 lbs., same basis ..... lb. .20 - —
white, ctns., 20,000 lbs., same basis ..... lb. .33½ - —
Less than 20,000 lbs., same basis ..... lb. .34½ - —

Montan, dom., black, raw ..... lb. .25 - .25½
refined ..... lb. .31 - .32
Bohemian, bgs ..... lb. .15 - .16
German, bgs ..... lb. .15 - .16

Ouricury, refined, bgs., ton lots ..... lb. .79 - .80

Paraffin (see P.).

Spermaceti, blocks, cs ..... lb. .25 - .27
cake, cs ..... lb. .26 - .28
Sugar cane, crude, imp., bgs ..... lb. .35 - .37
lb. .35 - .37
refined, dom., slabs, works ..... lb. .60 - .65
imp., bags, N. Y. ..... lb. .40 - .42

White lead (see Lead, white).

White pine bark, rossed, bls ..... lb. .17 - .19

White precipitate, USP, powd., dms., 50 lbs ..... lb. 2.00 —

Whiting, limestone, dry-grd., 99.5%, 325 mesh, bgs., c.l., works. ..... ton. 6.00 - 10.00
smaller lots, works ..... ton. 6.50 - 15.00
wet-grd., bgs., c.l., works ..... ton. 16.00 - 30.00
smaller lots, works ..... ton. 21.00 - 35.00
Paris white, bgs., c.l. ..... ton. 24.00 - 31.00
l.c.l. ..... whse. ton. 25.00 - 40.00
Precipitated, bgs., c.l. ..... ton. 18.00 - 20.00
l.c.l. ..... ton. 25.00 - 35.00

Wild cherry bark, thick, natural, bls ..... lb. .06 .07
rossed, bls ..... lb. No prices.
thin, natural, bls ..... lb. .13½ .16
rossed, bls ..... lb. .17 .18

Wild indigo root, bls ..... lb. .30 .31

Wild yam root, bls. ..... lb. .16 .17

Witch hazel leaves, bls ..... lb. .25 - .27

Woodflour, 40 mesh, bulk, c.l., works, East ..... ton. 32.00 —
l.c.l., same basis ..... ton. 40.00 - —
60 mesh, bulk, c.l., same basis ..... ton. 37.00 - —
basis ..... ton. 37.00 - —
l.c.l., same basis ..... ton. 45.00 —
80-100 mesh, bulk, c.l., same basis ..... ton. 40.00 - 45.00
l.c.l., same basis ..... ton. 50.00 - 55.00
Woodflour in bgs. extra, returnable.

Woolfat (see Lanolin).

Wormseed, American, bgs ..... lb. .13 .14
Levant, bgs ..... lb. 4.15 4.25

Wormwood leaves, bls ..... lb .35 - .45

X

Xanthorrhiza root, bls ..... lb. .28 .30

Xylene (see Xylol).

Xylenol, cryst., 56°-58°C. m.p., ret. dms., c.l., works, frt. equald ..... lb. .193 - —
l.c.l., same basis ..... lb. .196 - —
tanks, same basis ..... lb. .18 - —
45°-47°C, dms., c.l., frt. equald ..... lb. .153 - —
l.c.l., same basis ..... lb. .156 - —
tanks, same basis ..... lb. .14 - —
fractions, over 7°C, b.p., dms., c.l., same basis ..... gal. .81 - —
l.c.l., same basis ..... gal. .84 - —
tanks, same basis ..... gal. .70 - —
Meta fraction, over 7° C, dms., c.l., same basis ..... gal. .96 - —
l.c.l., same basis ..... gal. .99 - —
tanks, same basis ..... gal. .85 - —

Xylidins, mixed, dms ..... lb. 45 .50

Xylol, coaltar, industrial, tanks, works —
Bethlehem, Pa ..... gal. .26 - —
Birmingham district ..... gal. .23½ - —
Chicago district ..... gal. .26½ - —
Cleveland district ..... gal. .26 - —
Dangerfield, Tex. ..... gal. .27 —
Hamilton, Ohio ..... gal. .26 —
Johnstown, Pa ..... gal. .24 —
Lackawanna, N. Y. ..... gal. .24 —
Pittsburgh district ..... gal. .23 - —
Sparrows Point, Md ..... gal. .26 - —
St. Louis, Mo ..... gal. .28 —
Syracuse, N. Y. ..... gal. .23½ - —
Terre Haute, Ind. ..... gal. .26 - —
Wyandotte, Mich ..... gal. .27 - —
Youngstown, Ohio ..... gal .23½ .25
Petroleum, indust., 10°, tanks, works:—
Albany, N. Y. ..... gal .25 —
Bayonne, N. J. ..... gal .25 —
Baytown, Tex. ..... gal .25 —
Chicago, Ill. ..... gal .27 —
Detroit, Mich. ..... gal .28 —
Philadelphia, Pa. ..... gal .28 —
Providence, R. I. ..... gal .28 —
Wood River, Ill. ..... gal .27 —

Y

Yara, yara, cns ..... lb. 2.00 2.25

Yeast brewer's dry, USP, 50 B units, per gram, 100-lb. dms ..... lb. .44 .46
90 B units, per gram, 100 lb. dms ..... lb. .49 .51
200 B units, per gram, 100 lb. dms ..... lb. .53 .55
300 B units, per gram, 100 lb. dms ..... lb. .57 .59

Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul ..... lb. .30¼ - —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.

Benzidin, bbls., dlvd ..... lb. 1.60 - 1.70

Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies ..... lb. 2.65 —
Lithopone, all shades, bbls., frt. alld. E. of Rockies ..... lb. .95 —
Cadmium yellows, Los Angeles and San Francisco, ex whse 1c per lb higher.

Chrome, CP, bbls., dlvd. N. Tenn. and N. C. E. of Miss., including Davenport, Minneapolis, Rock apolis, Rock Island ..... lb. .25 - —
Dlvd. Ala., Fla., Ga., La., (Shreveport) 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1½c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Yellow, hansa, bbls., same basis as chrome ..... lb. 1.60 - 1.70
Primrose, bbls., same basis ..... lb. 1.90 2.10
iron oxide, natural, bgs., c.l., works ..... lb. .0141 - .0250
l.c.l., works ..... lb. .0166 - .0275
French type, bgs., c.l. ..... lb. .04½ - —
l.c.l. ..... lb. .04¾ - —
Peruvian type, bgs., c.l. ..... lb. .0185 - .0210
synth. bgs., c.l. works ..... lb. .09 - —
l.c.l. works ..... lb. .09¼ - —
Mercury oxide, bbls., 1,000 lbs. ..... lb. 1.93 - —
smaller lots ..... lb. 1.95 - —
Ocher American golden, bgs., works ..... lb. .01¼ .02¾
Zinc, bots. same basis as chrome ..... lb. .21 - —
Yellow dock root, bls ..... lb. .16 - .25
Yellow xanthorrhiza (see Xanthorrhiza)
Yerba santa leaves, bls ..... lb. .28 - .30
Yohimbine hydrochloride vls ..... oz. 3.25 - 4.00

Z

Zein, bgs., 36,000 lbs., works ..... lb. .30 - —
1,000 lbs. to 36,000 lbs., works ..... lb. .32 - —
smaller lots, works ..... lb. .35 - —

Zinc acetate, tech., bbls., dms ..... lb. .26¼ - —
NF, dms. ..... lb. .38 —

Arsenite, bgs., c.l., frt. alld. E. of Rockies ..... lb. No stocks.
l.c.l., same basis ..... lb. No stocks.

Borate, bgs., c.l., ship't pt., frt. alld., E ..... lb. .15½ - —
l.c.l., ship't pt., frt. alld. E ..... lb. .16 - —

Carbonate, purified, powd., dms. ..... lb. .26 - —
tech., rubber makers', bgs., works ..... lb. .10¾ - .11¼
precipitated, powd., dms. ..... lb. .26 - —

Chloride, tech., fused, dms., c.l., works. 100 lbs. 7.00 - —
l.c.l., works ..... 100 lbs. 7.40 - —
gran., bbls., c.l., works. 100 lbs. 7.75 - —
l.c.l., works ..... 100 lbs. 8.15 - —
solution, 50%, dms., c.l., works. 100 lbs. 3.90 - —
l.c.l., works ..... 100 lbs. 4.50 - —
tanks, works ..... 100 lbs. 3.25 - —
NF, gran., dms ..... lb. .42 - —

Chromate (see Yellow, zinc).

Cyanide, kgs., works ..... lb. .38 - .41

Dust, bbls., c.l., works ..... lb. .1225 - —
dlvd. ..... lb. .1250 - —
l.c.l., works ..... lb. .1260 - .1325

Fluoride, bbls., works ..... lb. .40 - —

Hydrosulphite, dms., c.l., frt. alld. ..... lb. .17¼ - —
l.c.l. ..... lb. .17¾ - .19¾

Iodide, NF, jars ..... lb. 4.85 —

Laurate, bbls ..... lb. .45 - .46

Linoleate, solid, 9½%, bbls ..... lb. .42½ - —

Metal slabs, E. St. Louis ..... lb. .10 - —

Naphthenate, liquid, 8% Zn., frt. alld. ..... lb. .20¾ - —
10% Zn, dms., frt. alld ..... lb. .25¼ - —

Oleate, fused, bbls ..... lb. .36 - —

Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld ..... lb. .11 - —
l.c.l., works ..... lb. .11¼ - —
American process, com'l, lead-free, bgs., c.l., ship't point, frt. alld. ..... lb. .11 - —
l.c.l., works ..... lb. .11¼ - —
leaded, 5%, bgs., c.l., ship't point, frt. alld. ..... lb. .11 - —
l.c.l., works ..... lb. .11¼ - —
35%, bgs., c.l., ship't point, frt. alld. ..... lb. .11½ - .11¾
l.c.l. works ..... lb. .11¾ - .12
80%, bgs., c.l., ship't point, frt. alld. ..... lb. .11¾ - .12⅛
l.c.l., works ..... lb. .12 - .12⅛
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld. ..... lb. .13¼ - —
l.c.l., works ..... lb. .13½ - —
green seal, bgs., c.l., ship't point, frt. alld ..... lb. .12¾ - —
l.c.l., works ..... lb. .13 - —
red seal, bgs., c.l., ship't point, frt. alld. ..... lb. .12¼ - —
l.c.l., works ..... lb. .12½ - —
white seal, bgs., c.l., ship't point, frt. alld ..... lb. .13¼ - —
l.c.l., works ..... lb. .13½ - —
USP, ctns., c.l., ship't point, frt. alld. ..... lb. .14¼ - —
l.c.l., same basis ..... lb. .14½ - —

Zinc oxide Pac. coast prices, etc., higher; bbl. prices ¼c. higher than bgs.

Thionosulphonate, NF, gran., bbls., dms ..... lb. .33 - .34
powd., bbls ..... lb. .36 - .37

Resinate, fused, 1% Zn, dms., frt. alld. ..... lb. .20 - —
precip., dms., frt. alld ..... lb. .22 - —

Silicofluoride, bbls., works ..... lb. .10 - .10½

Stearate, tech., USP, ctns., c.l., ton lots ..... lb. .34 - —
less ton lots ..... lb. .35 - —
.36 - —

Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld. 100 lbs. 4.55 - —
l.c.l., same basis 100 lbs. 4.95 - —
flake, 25½%, Zn, bgs., c.l., works. 100 lbs. 4.50 - —
l.c.l., works ..... 100 lbs. 4.90 - —
powd., 36% Zn, bgs., c.l., dlvd., same basis ..... 100 lbs. 7.00 - 7.40
l.c.l., same basis ..... 100 lbs. 7.40 - 7.75
Zinc sulphate in bbls. 40c. higher

USP, gran., dms ..... lb. .22 - 22¼

Sulphide, pure, bgs., c.l., frt. alld. ..... lb. .13¼ - —
l.c.l., works ..... lb. .13½ - —

Barium pigment, bgs., c.l., dlvd. ..... lb. .08 - —
l.c.l., works ..... lb. .08¼ - —

Calcium, pigment, bgs., c.l., dlvd ..... lb. .08 - —
l.c.l., works ..... lb. .08¼ - —

Luminescent pigment, frt. alld. ..... lb. 1.00 - 3.00

Magnesium pigment, bgs., c.l., dlvd ..... lb. .08 - —
l.c.l., dlvd ..... lb. .08¼ - —
Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.

Yellow (see Yellow, zinc)

Zinc-ammonium chloride, bgs., c.l., works. 100 lbs. 7.00 - —
l.c.l., works ..... 100 lbs. 7.40 - —

Zinc-cadmium sulphide, fluorescent, cns., frt. alld ..... lb. 2.00 2.80

Zinc-calcium resinate, dms., c.l., works ..... lb. .1180 - .1360
l.c.l., same basis ..... lb. .1220 - .14

Zinc-formaldehyde sulphoxalate, basic, dms., works ..... lb. .21½ - —
normal, dms., works ..... lb. .43 - —

Zircon (see Zirconium silicate).

Zirconium acetate, 13% sol. ZrO_2, bbls., works	lb.	.21¼	—
Carbonate, basic, cake, bbls., works	lb.	.30½	—
Hydride, cns., works	lb.	7.00	8.00
Nitrate, dms., works	lb	1.75	—
Oxide, 98½-99% white, grd., bbls. or bags, works	lb	1.50	—
lump, electric-fused, bgs., c.l., works	lb.	.44	—
5 tons, works	lb	44½	—
1 ton or less, works	lb	45	48
milled, electric-fused, bgs., c.l., works	lb	59	—
5 tons works	lb	59½	—
1 ton or less, works	lb	60	63
Oxychloride, crvst., ctns., 5 tons, works	lb	29½	—
Zirconium silicate, granular, bgs., c.l., works	lb.	.03¼	.03¾
10 tons, works	lb.	.03½	.04
5 tons, works	lb.	.04	—
1 ton or less, works	bl.	.04¼	.04¾
milled, bgs., c.l., works	lb	04¾	—
5 tons, works	lb	05¼	—
1 ton or less works	lb	05¾	06¾
refined, bgs., c.l., works	lb	.11	—
works	lb	11	—
5 tons, works	lb	11½	—
1 ton or less, works	lb	12	16
Sulphate, cryst., ctns., c.l., works	lb	.37½	—
5 tons, works	lb	38	—
1 ton or less works	lb	38½	39

CCDA Discusses International Development

—*Continued from page 7*

specifications are sufficiently fixed, offer firm prices or turnkey bids on major industrial projects, whereas up to a year or so ago practically all contracts were either on a costs-plus basis or contained various escalation clauses."

Financial Points to Watch

Mr. Broom listed the greatest perils to completing a project within the limits of the original appropriation as follows:—

1. Appropriation based on incomplete estimate of the cost of the processing unit and lack of appreciation of the contribution to final cost made by some of the less apparent cost items.
2. Estimate made before processing studies are sufficiently completed to define the required processing steps.
3. Inadequate consideration given to requirements for non-process facilities and utilities.
4. Lack of control over the job as it progresses.

Mr. Broom concluded by emphasizing that it is not always best long-range policy to let minimum investment cost be the only consideration. Frequently, he said, shorter completion time is worth more than the money which can be saved by several months of specification writing and bid comparisons.

The afternoon session was devoted to a study of American participation in international chemical development. Robert L. Taylor, editor of *Chemical Industries*, was mediator.

Foreign Chemical Recovery

Charles C. Concannon, chief of the chemical division of the bureau of foreign and domestic commerce of the Department of Commerce opened the session by declaring that chemical expansion abroad since the war has been phenomenal. Shortages are disappearing, he declared, and should be non-existent in a few years.

Citing ECA aid in the past, with further assistance planned to increase European production of fertilizers, dyes and plastic materials, Mr. Concannon stated that all chemical manufacturing countries, whether war-damaged or not, are now all operating at levels above prewar.

The United Kingdom, he said, is spending $30,000,000 annually on research and development alone. Imperial Chemical Industries, he declared, has a project in Wilton which will be completed in 1952 and will cost about $80,000,000. He stated that ICI is expanding in plastics, alkalies, sulphuric acid, dyes, pharmaceuticals and other synthetic organics.

French Industry Growing

Mr. Concannon said that France, probably third in chemicals world production and trade in 1949, had increased production of coaltar products 30 percent over 1948 and 1938; organics chemicals slightly over 1948; inorganics, slightly below 1948 but equal to 1938, and fertilizers, equal to 1948 but below 1938.

Present plant capacity in France is being expanded for production of nitric acid, detergents and nitration-fixation products, Mr. Concannon continued, and plans are being formulated for output of various petroleum chemicals. The government-owned potash firm, he said, is being expanded with the aid of $4,000,000 from ECA.

Mr. Concannon said that, despite the destruction of chemical facilities in Germany during the war, capacity is now greater than in 1939 In November, 1949 output was 92 percent of that of 1936. Output of dyes by 1952-53 in the western zone will be only 30 percent less than in 1938, he reported, and 50 percent of this will be for export. Plans for 1950, according to the speaker, call for intensive efforts in the western zone to open new and reopen old potash mines, with a view toward doubling exports.

J. L. Gillis, general manager of the Merrimac division of the Monsanto Chemical Company, discussing "Where and When to Build a Plant Abroad," answered this by saying that they should be built only when the motives for doing so are so compelling as to be overpowering. Arguments against entering into foreign operations were listed as follows:—

1. The company becomes subject to the other country's laws and taxes.
2. The problem of unfamiliarity; if a national of the country selected is named head of the operation, chances are that he is unfamiliar with the business and management policies of the firm; if an American is selected, he probably will have no knowledge of local laws, customs and practices.
3. Government interference in foreign countries is probably much worse than in the United States.
4. Danger of total or major loss due to war or revolution is becoming more, rather than less, a factor.
5. Loss of market, by the American plant, for the product to be manufactured. This is a strong point raised by American labor unions.

Advantages to Be Gained

On the other hand, Mr. Gillis listed these advantages for entering into foreign operation:—

1. The immediate one of passing through barriers of exchange controls, tariffs, quotas and other artificial impediments to business.
2. Improvement in development of market in which factory is located.
3. Local production can be tailored to local demand and preference.
4. Local operation contributes additional employment and purchasing power to the country in which the plant is established.
5. The contribution to good feeling between countries, particularly where the United States firm combines with foreign capital.
6. The opportunity to train American personnel in management, especially in the ways of the rest of the world.

A. F. G. Cadenhead, director of chemical development for Shawinigan Chemicals Ltd., Montreal, discussed estimating of foreign market potential and listed some of the important points which must be covered in this work.

"First," he said, "the general size and type of a foreign country's economy should be studied. Then the structure and ownership of its industries should be examined. Tariffs, freight rates, embargos and other similar factors should be investigated and, most important, the market should be assessed by actual visits and contacts in the field."

"However," he said, "this should not lead us to be overly pessimistic. There are some financial steps that can be taken by governments to encourage a more orderly international financial situation. The adjustment of exchange rates to more realistic levels is one possibility.

In addition to Mr. Soderberg, officers elected by the association were vice-president, V. E. Wellman, Calco Chemical Division of American Cyanamid Company; treasurer, C. W. Walton, Minnesota Mining & Manufacturing Company, and executive secretary, G. O. Cragwall, Chas. Pfizer & Co. Directors elected were L. H. Flett, National Aniline Division of Allied Chemical & Dye Corporation; R. L. Bateman, Carbide & Carbon Chemical Division; W. S. Thornhill, Shell Development Company, and J. J. Schaefer, consultant.

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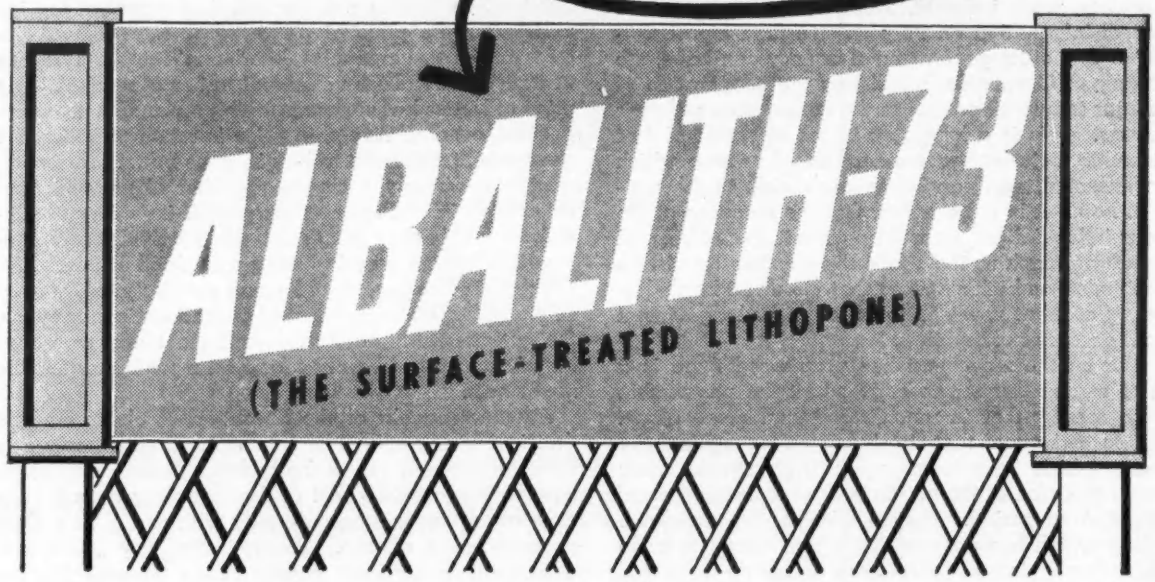

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Volume 157 March 27, 1950 Number 13

Teaming Up with Government

In keeping with the purpose of the general reorganization plan proposed for government by the Hoover commission, the Secretary of Commerce has started the streamlining of the functioning of his department in the service of business. One of the major goals in his reorganization scheme is the concentration of the departmental service for major industrial groups into the hands of one committee for each group. Everybody knows that there is very much intradepartmental, as well as interdepartmental duplication of such services. Many, but unfortunately not all either in governmental agencies or in industry, know that the duplication is inefficient, as well as costly, and particularly is confusing. Any step toward simplification and centralization will be good. There is reason to believe that the ideas of the Secretary of Commerce will carry the desirable improvement forward by many steps—at least with reference to intradepartmental functioning.

With a frank and commendable admission that an industry has more intimate, more accurate, and more technical information on its problems than his department, or any other governmental agency can have, the Secretary of Commerce is enlisting the cooperation of the major industrial groups in the consideration of their problems. This is a long step in the direction of that partnership between government and business which is so essential, and can be so beneficial, to the welfare of both. It is to be hoped that the response of the various industrial groups will be what it should be, and that the approach to the cooperative endeavor will be open-minded on both sides, so that there will be understanding of what really is to be done and agreement upon the manner of its doing.

Insofar as the movement has progressed there is a deal of encouragement to expect that the partnership will be exactly that in much more than name alone. There is evidence that businessmen recognize the changes which have come upon international trade largely by reason of the politicoeconomic developments of the postwar period. They are beginning to see the extent to which international trade and domestic trade are reciprocally influential and are becoming more and more interdependent. They know that the newly defined breadth of the R procedure in relation to the supervision, if not control, of exports is something which must be reckoned with and will demand in the reckoning all the particular technical knowledge which each affected industry can contribute.

The position of the chemical industry—one of the nation's really multipartite groups—in the newly developing scheme of world trade is particularly beset with problems. The benefits which are potential for it and through it for the broader welfare of the national economy in a properly functioning partnership with government are obvious. They can be expected to acquire an increasing importance with the progressive resumption of productive activities in other countries and the inevitably consequent trends in the areas of more or less reciprocal international trade agreements. Not much less significant are the problems which already are facing the petroleum industry in its other than chemical aspects. That industry has a wartime record of efficacious, satisfactory cooperation with government from which it may find it desirable to draw experience in a newer need.

The Secretary of Commerce has asked for constructive suggestions for strengthening the business system of the nation. He should get more relevant responses than that of one business organization which recommended clarification and modification of the antitrust laws. Desirable as such a move would be, it is not something with which the Secretary of Commerce should be asked to concern himself or his office. Legislative activities, of course, are not unknown on the part of administrative agencies of the federal government. But, they are out of place and in the final analysis they often do more harm than good for those who induce them, because of the natural reaction of congress to such lobbying and the drift of public sentiment under the influence of such partiality. The necessary emending of the antitrust laws should be demanded directly of congress. The Department of Commerce should be assisted, not merely asked, to help business properly to grow. It is evidencing a willingness to do its part.

The Oleo Olio

The repeal of the federal taxing of oleomargarine was a nationally beneficial move in the direction of this nation's high regard for equality. It has been lauded also as a commendable consideration of the household purse of a goodly portion of the people of the land. Under the criterion of the national income, it may not be so beneficial as, on its face, it may appear.

The signposts in that direction spell out, something after the style of the well-known roadside advertisements of a shaving aid, the fact that repeal of the tax will lower the price of oleomargarine. That will increase the consumption of that "eatin' fat," in a degree at the expense of the volume of butter consumed. The price of butter has a paternalistic prop under it. Competition, even relatively, in price is anathema. So, the government will have to buy in more butter—that commodity is already a close competitor of potatoes and dried eggs in Uncle Sam's immovable inventory of subsidized surpluses. No doubt there would be a concomitant governmental glutting with dried skimmilk. All of which, of course, would mean pouring more money in the ratholes of that latest of great American systems, the governmental handout. And the taxpayer would be putting up good money for a lot more butter that he never gets.

Another sequela of the liberation of oleomargarine that is causing a deal of concern and conversation is the new power given to the Federal Trade Commission by the "and others" part of the repealing act's title to treat every day of nonconformity with one of its orders as a separate offense. Theoretically, any penal law without adequate teeth is worse than useless. So, the new FTC power can be supported in many respects. But why an honest people continues to permit all manner of legislative chicanery by way of that indefinite "and others" in the statement of the purpose of an act is not explainable in terms of ordinary human intelligence.

The newest and weirdest act in the oleo olio is the introduction in the senate of a measure (SJRes 162) providing for investigation by the Secretary of Agriculture into the effect of the repeal of the oleomargarine taxes on American agriculture. The sponsor of the measure is the newer senator from New York, one of the states which still statutorily worship butter as a golden calf. His interest in American agriculture does not have a trace of grass-roots accent. Politicomics makes strange breadspreaders.

For the Bookshelf

THE CHEMISTRY OF ORGANIC MEDICINAL PRODUCTS. By Glenn L. Jenkins and Walter H. Hartung. Third edition. Cloth; ix+745 pages. New York: John Wiley & Sons, Inc.; London: Chapman & Hall, Ltd. $7.50.

If there could be a classic in an area so protean as that of chemotherapy, this would be it. Prof. Jenkins and Prof. Hartung started doing a good job in the preparation of the first edition, which came out almost ten years ago, and they have made an excellent showing in keeping up with the activities and progress which compel them to revise almost every page when a new edition is in the making. As it is seven years since the publication of the second edition, the newness of the third need not be particularly noted. Chemotherapy has gone far and wide in that period.

The design of this book was to organize the multitude of organic medicinal compounds according to the accepted scheme of chemical classification. This is not primarily a book on materia medica. The scheme divides the contents into hydrocarbons, halogenated hydrocarbons, hydroxyl derivatives of hydrocarbons, ethers and ether peroxides, carbonyl group, carboxyl group, natural mixtures, amines and amine derivatives, cyanides and nitro compounds, sulphur compounds, compounds of phosphorus, arsenic, and antimony, metallic derivatives of organic compounds, heterocycles containing one heteroatom, heterocycles containing two or more heteroatoms. In addition, there are chapters on stereoisomerism and physicochemical properties of medicinal products. That quite well explains the number of pages of text, despite a commendable conciseness. The scope is further indicated by the fact that there are more than 4,000 items in the index. Those who desire to go beyond the fundamental style of the contents will find much help in the bibliographies, one of which is appended to each of the schematic groupings; there is also a general list.

Scientifically, technically, and in good part commercially, this book is of value in the drug industry.

Washington Talks It Over

—Continued from page 5

are big consumers of yellow color. They have to add color to their product so that the color will be uniform throughout the year. If left to Mother Nature the color would range from almost white to nearly green, depending upon the season.

Under its new law, the oleomargarine manufacturer must state on the label of his product that color has been added, but no such requirement is imposed on the butter manufacturer. Years ago they got a specific exemption from the color-added labeling requirement, and that exemption still stands. It will be found in section 403 (k) of the federal food, drug, and cosmetic act. The exemption also extends to cheese and ice cream. In fact, the dairy industry is the only industry in the country that enjoys this exemption for its products.

Foreign Trademarks Registration

The drug industry is becoming increasingly concerned over a trend that seems to be developing abroad of registering the common and generic names of new drug products under the local trademark laws and thereby blocking American firms from selling the products under those names.

In the United States it is not possible to get a registered trademark for a common or generic name, but some of the other countries are not so particular on this score. It is next to impossible for an American firm to get a foreign country to change its laws to meet such situations, so about the only thing that can be done is to get in there and register the names first.

Some of the names that have been registered recently are "Cortisona" (Spain); "Cortisonin" (Cuba); "Cortsona" (Cuba); "Cortesone" (Brazil); "Streptomycin" (Spain); "Bedoce (B-12)" Argentina); "B-12 Complex" (Mexico); "B-12 Carnot" (Mexico), and "Cortisone" (France).

ACTH, Cortisone Research Funds

The director of the National Institutes of Health, Assistant Surgeon General Rolla E. Dyer regards the development of ACTH and cortisone as placing in the hands of medical research tools with possibilities of even greater and wider scope than developments made possible by Pasteur in the field of bacteriology.

His estimate of the worth of the two new drugs was so high that the house appropriation committee, on its own motion, decided to add $2,500,000 to a requested appropriation of $1,100,000 for research exclusively in the new field of medicine opened up by these drugs. The increase was one of the comparatively few increases in budget estimates made anywhere in the government by the committee for the new fiscal year.

Potato Problems

The Potato Advisory Committee set up under the agricultural research and marketing act is again urging the Department of Agriculture to give top priority to research that will mean greater food and feed outlets for potatoes. It is suggested that second priority be given to more efficient marketing and quality improvement.

One way of increasing the food outlet for potatoes would be for the researchers to spend some of the money in devising a system of price support that would insure the good quality potatoes reaching the markets where consumers can purchase them instead of winding up in some government warehouse. As it is now the stuff reaching the market is what should be going into industrial uses or given away.

Quartermaster Corps Buying

The army quartermaster corps is revising its purchasing policy so that in the future there will be a minimum of ninety days between award of a contract and initial delivery of materials. The new policy will apply to all supplies other than food. Exceptions, of course, may be made in connection with purchases for special programs and in instances where requirements or other circumstances necessitate earlier delivery.

Considerable variation existed heretofore in the "lead time" between date of contract award and initial deliveries. By establishing a ninety-day minimum, contractors will be assured of ample time to start deliveries. The new procedure is expected to encourage greater participation of small business in quartermaster procurement.

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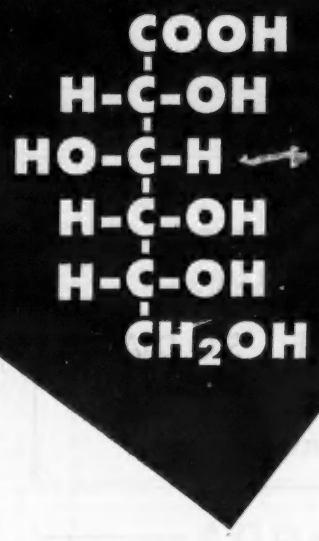

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Heavy Chemicals

Sodium cyanate was advanced last week as a result of increased producing costs. The recent advance in the price of tin metal was responsible for higher markets for sodium stannate, tin chloride, crystals, oxide, sulphate and tin tetrachloride. Thallium metal was reduced in price on account foreign competition and the desire of domestic suppliers to protect their market. Demand for prime western zinc has increased sharply and the market closed firm with available stocks definitely low.

No easement could be noted in the supply of chlorine. Mechanical trouble at one of the producing plants has delayed shipments not only in chlorine but in carbon tetrachloride. In addition to an unusually heavy demand for chlorine from the chemical industrty, the time is rapidly approaching for water treatment, in fact, inquiries have already reached the market from some of the municipalities. March sales of soda ash and caustic soda are said to compare favorably with prewar months. Production of both of these heavy tonnage chemicals has kept slightly above current requirements. Industrial demand for copper sulphate is holding at a high level and a sizable tonnage for agriculture has been booked for late April and May shipment. The chlorates will be advanced April 1 and so will sulphuric acid in tankcars.

Paper production based on a percentage of six-day capacity was 102.7 percent for the week ending March 18, according to the American Pulp and Paper Association. This compared with 102.6 in the preceding week and 89.2 for the corresponding week in 1949.

Ammonia Liquor—Production in January was placed at 4,155,545 pounds by the Bureau of Mines. December production was 4,078,392 pounds and in January last year output amounted to 4,311,235 pounds. January sales were 2,432,757 pounds, compared with 2,983,867 in the preceding month and 3,331,103 pounds in January, 1949. Stocks on January 31 were 1,757,633 pounds, against 1,707,934 on December 31 and 1,249,726 pounds on January 31, 1949.

Carbon Tetrachloride—Not in free supply at the close of the month. Some of the producers have their output sold entirely through April. Contract shipments have been made on time in most instances but one of the producers is having plant trouble with backlog orders increasing. Prices will be fractionally advanced on April 1 and this has brought a lot of buyers into the market in order to take advantage of current quotations.

Chlorine—Market remained as tight at the close as at the opening of the month. Demand has kept ahead of production mostly on purchases for chemical use. It is pointed out that inquiry is about to increase for water treatment and that orders from municipalities are beginning to reach the market. According to trade reports, the supply situation may remain tight indefinitely. Multiple unit tanks will be priced higher April 1.

Copper Sulphate — Supply conditions have tightened appreciably during the past month. Orders for agriculture from southern areas have increased and a substantial amount of business has been placed for shipment within 4 to 7 weeks. Demand from Maine, New England and northern New York is still backward. Industrial demand has been sustained at a high level and export inquiries for prompt shipment for South America, Spain and the Dutch East Indies are in the market and are uncovered.

Potash, Caustic—Supply conditions have improved during the month and contract consumers have received shipments in fairly regular dimensions. The delay in the return of tankcars has aggravated the movement at intervals and there are still some backlog orders to be leveled but the market situation appeared to be steadily working into a normal condition. Demand from the soap industry has remained active all month.

Potassium Carbonate—Market situation is not unlike that noted in caustic potash. The glass factories have continued to call for shipments and the contract movement has steadily improved during March. Liquor has not commanded any unusual attention from the textile mills.

Potassium Chlorate — Heavy shipments to the match factories have kept the market in a tight condition over the past month. The best heard for additional lots last week was late April or early May shipments. Prices will be advanced on April 1.

Salt Cake—Prices have remained fairly steady in the local market, with kraft paper mills and the glass plants both showing interest. The market has experienced some competition from imported material during the month, but in the southwest it was stated domestic producers have competed for new business at the expense of prices, and the market has shown considerable flexibility.

Soda Ash—Demand has averaged about steady over the month of March. It was stated that shipments, while considerably below the average established during the war period, compare favorably with the pre-war months. Production has been well geared to demand, but is still slightly in excess of requirements, making it possible for most producers to consider new business for prompt shipment.

Soda, Caustic—Supply situation easier than soda ash as a result of the maintenance of electrolytic production at a high level. Demand from major consuming industries has held about steady during March, but it was never broad enough to exert pressure on output. Stocks have continued available for prompt shipment for home and export.

Sodium Chlorate—Supply position tight with production under contract for several months ahead. Demand since the first of the year has continued at an unusually high level, both for industry and for agriculture. Prices will be fractionally advanced April 1.

Sodium Cyanate—Market higher at $1.10 per pound for 1,000-pound lots or over, and $1.25 for 100-pound lots, f.o.b. the works. The upward revision is attributed to increased producing costs.

Sodium Stannate—Market advanced to 44.4c. to 50.8c. per pound to consumers. Higher prices in line with the advance in tin metal.

Tin Chloride—Stannous anhydrous priced higher at 71.53c. to 72.53c. per pound, works. The upward revision was occasioned by the establishment of higher tin metal.

Tin Crystals—Priced higher at 58½c. per pound, works, in accordance with the advance in tin.

Tin Oxide—Advanced 2c. per pound to 83c. to 84c. as a result of higher tin.

Tin Sulphate—Priced higher at 83.09c. to 85.09c. per pound, works, for stannous, owing to increased cost of metal.

Tin Tetrachloride — Anhydrous was priced higher at 47½c. to 48½c. per pound works. Upward revision due to higher metal.

Acids

Hydrofluoric — March sales generally steady with small lots commanding the most attention and the month's volume said to compare favorably with February. Production has kept stocks at a level sufficiently high to meet requirements promptly. There was no change in prices.

Nitric—Consuming interest well sustained over the past month with maintenance of high production affording stocks for prompt or immediate shipments. The broad consuming field has kept the market in a satisfactory state of animation.

Oxalic—No supply shortages developed during the month of March. Buying interest was more active in the last half than in the first half of the month but not of dimensions sufficient to tighten the available supply.

Sulphuric—Shipments have gone forward in seasonal volume with the March total said to compare favorably with the preceding month. High producing costs

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Sodium cyanate, 20c. per lb.
stannate, .06c. per lb.
Tin chloride, .046c. per lb.
crystals, ¼c. per lb.
metal, ½c. per lb.
oxide, 2c. per lb.
sulphate, .059c. per lb.
tetrachloride, ½c. per lb.

Prices Reduced

Thallium metal, $2.50 per lb.

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
213.8	213.8	213.8	216.4	232.2

Acids

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
121.9	121.9	121.8	121.8	122.8

(For Current Prices see Page 9)

have kept the market's position firm and the tankcar price is tagged for an advance on April 1.

Nonferrous Metals

Aluminum—Production of primary aluminum was up more than 25 percent in January, 1950, over December, 1949, from 82,322,329 pounds to 104,045,600 pounds, the Aluminum Association announced. Shipments of aluminum sheet, strip and plate also moved up in January to 69,349,363 pounds from 62,524,984 pounds in December. The figures reflect a continuing upward trend since November, 1949, when production of primary aluminum touched 71,729,519 pounds, low points of the year, and shipments of aluminum sheet, plate and strip were 54,065,069 pounds.

In addition, it was stated that new facilities are now being added in the industry to provide capacity for future increased production. One increase in the nation's production potential is provided by reactivation of an idle potline at Jones Mills, Ark. Also, partial production has started at a new reduction works in Texas, the first facility for making primary aluminum built since the war's end. Orders being received indicate primary aluminum will be produced at capacity at least during the first half of 1950.

Chromite—Imports of chromite into the United States during the fourth quarter totaled 213,233 short tons, compared with 407,052 tons during the previous period, according to the Bureau of Mines. The Union of South Africa was the largest supplier, furnishing 32 percent of the total, most of which was chemical and metallurgical grade ore. Turkey supplied 24 percent, all, except a small percentage, consisting of metallurgical ore; the Republic of the Philippines, 13 percent, metallurgical and refractory; U. S. S. R., 10 percent, metallurgical; Southern Rhodesia, 9 percent, metallurgical; New Caledonia, 6 percent, metallurgical; and the combined receipts from Cuba and India amounting to 6 percent, consisting of metallurgical and refractory ores. Domestic production during the fourth quarter 1949 amounted to 162 tons, making a total of only 376 tons for the year.

Copper—Steady demand throughout the month of March has held the market position firm. Heavy sales have been made for April, with inquiry leaning toward expansion. Electrolytic was priced at 18½c. per pound, delivered Valley basis.

Mine output of recoverable copper in January, 1950, was 71,449 tons, 14 percent greater than in December and 16 percent higher than the monthly average for 1949, according to the Bureau of Mines. The return to a six-day workweek at Utah and Nevada mines late in December was reflected in the January gains; production in Utah increased 27 percent over December, 1949, and in Nevada, 20 percent. The rise of 19 percent over December in Montana resulted from the resumption of output at a normal rate of copper production at Butte. Mines in Arizona had been returned largely to a six-day week base early enough in 1949, so that production gains showed up in the fourth quarter totals for that state; the January rise in Arizona amounted to only 7 percent.

Lead—Relatively quiet last week, with buyers assuming a rather cautious attitude. Interest was mostly in prompt shipments. According to trade reports, sales for the month will not compare favorably with either February or January. There were no important price developments last week, the common grade was priced at 10½c., New York, and at 10.30c. per pound St. Louis basis.

Manganese—Imports of manganese ore into the United States again rose sharply in the fourth quarter of 1949 to 510,822 short tons, the highest total for any similar period in the last three years, according to the Bureau of Mines. From the inadequate total of 273,567 tons in the first quarter, imports rose steadily thereafter, with a 21 percent increase in the second quarter; 28 percent in the third quarter and 20 percent in the fourth quarter. The year's total of 1,540,410 tons represented an increase of 23 percent over the 1948 total of 1,256,597 tons.

The relative position of the leading sources changed significantly during 1949. India replaced the U.S.S.R. as the principal source with 28 percent of the total, while Russia supplied only 5 percent in 1949, compared with 34 percent in 1948. Among the countries which supplied more than Russia were Gold Coast with 24 percent, Union of South Africa with 23 percent and Brazil with 10 percent. Mexico and Cuba were important sources with 4 percent each. Countries shipping small tonnages included the Republic of the

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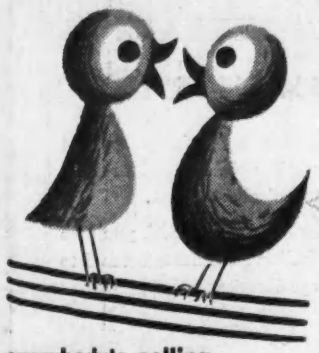

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Quicksilver—There has been an absence of important activity in this market during most of March. Buyers have shown moderate interest in small lots but round lots were neglected. Sellers named $71 to $72 for 100 flask quantities and $73 to $75 for smaller lots. Imports last week included 2,100 flasks from Cadiz.

San Francisco.—There are no new developments to report for the Coast market. Stocks continue limited with the present quotation for metal unchanged at $73 per flask.

Silver—No price changes were recorded during the month of March. Demand continued steady but not broad enough to advance the market. Bullion was priced at 73¼c. per ounce in New York.

Mine output of recoverable silver in January, 1950, was 3,211,334 ounces, 16 percent higher than in December, 1949, and was 13 percent greater than the monthly average for 1949, according to the Bureau of Mines. Among important silver-producing states gains over December were registered by Idaho (40 percent), Montana (23 percent), California (14 percent), Utah (7 percent), Arizona (6 percent), and losses were shown by Nevada (27 percent) and Colorado (5 percent).

Thallium—Priced lower under competitive selling. Stocks were available at $12.50 to $15 per pound, delivered, a decline of $2.50 per pound.

Tin—After showing early irregularity, the market developed a firmer tone and advanced to 77½c. per pound for grade A stock. Domestic buying was conservative with consumers showing no disposition to extend commitments beyond current wants.

Tungsten—Bureau of Mines states that domestic production and shipments of tungsten concentrates (reduced to an equivalent of 60 percent WO_3) in the fourth quarter of 1949 were 567 and 505 short tons, respectively, a decrease of 3 percent in output from the preceding quarter but an increase of 27 percent in shipments. Producers' stocks were 887 tons on December 31, compared with 825 tons on September 30. All producing states except California reported smaller outputs in the fourth quarter.

Zinc—Demand has steadily increased during March and the market's undertone was definitely firm. The desire of galvanizers to build up inventories was reflected in larger purchases which brought available stocks to a low level at the close. Prime western was priced at 10c. per pound, East St. Louis basis.

Ansul Publishes Chart

Ansul Chemical Company, Marinette, Wis., has published a fire extinguisher inspection chart, designed to help fire inspectors keep accurate records of their extinguishers. Copies may be obtained upon request to the company.

Carbide & Carbon Names Three

Carbide & Carbon Chemicals Division, Union Carbide & Carbon Corporation, New York, has appointed E. L. Meadows office manager of its Newark district office; W. E. Rixon, technical representative at the Charlotte office, and J. W. Fleck, technical representative at Cleveland.

Trade Briefs

Monsanto Chemical Company's plant at Anniston, Ala., has reportedly completed a full year's work without a lost-time accident.

Vick Chemical Company has appointed Russell A. MacDowell manager and Joseph T. Orchard assistant manager of its subsidiary, Sofskin.

Howard A. Splitt, Rochester, N. Y., manager for Commercial Chemicals, Inc., Buffalo, N. Y., has been elected president of the Rochester Rotary Club for the year 1950-51.

Aloe Products Company has revived its industry in Aruba, Netherlands West Indies. About 150 pounds of aloin are produced daily and this rate is expected to be doubled in the near future. Annual capacity is 90,000 pounds of USP aloin.

Hercules Advances Huber

Hercules Powder Company, Wilmington, Del., has appointed Richard L. Huber to the product promotion and market development division of its cellulose products department. He has been succeeded as sales representative in the Cleveland area by Frank Ketcham. In his new position, Mr. Huber will remain in Cleveland, devoting his time to market potentials in the midwest.

Milk Sugar Report Suspended

The monthly "Milk Sugar Report" which has been published continuously since September 12, 1946, by the Department of Agriculture has been suspended as of the issue for December, 1949, the department announced last week.

The Bureau of Agricultural Economics will continue to compile in its annual enumeration of the production of manufactured dairy products information on the production of crude milk sugar. The data for 1950 will appear in the bureau's "Manufactured Dairy Products Report, 1950," which will probably be released in October, 1951.

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Textile and Leather Chemicals

Buying interest in textile and leather chemicals last week, showed little material improvement as consumers continued to limit purchases for most products to prompt requirements. While business was spotty, the price structure remained steady.

Although trading in potato starch was light, the market was firm as producers inventories were not heavy. Consumers continued to show preference for new starch, despite government owned stocks which were available at one quarter cent per pound less. Corn dextrin was in steady demand, which kept deliveries s veral weeks behind schedule. Corn starch also was in good request as a result of guaranteed prices against advance. The low grades of tapioca flour continued to receive more buyer's interest than the better grades.

There was no change in the steady market for egg albumen and yolk, which reflected the firmness of shell eggs and a fairly active demand for spot and forward delivery.

Tanners limited interest in tanning material replacements to an occasion shipment for prompt delivery. Quotations of all materials were without change.

Cattlehide leather production was indicated at 1,887,000 hides in January, compared with 1,990,000 during December, by Tanner Council, and calf and whole kid skins totaled 927,000 against 941,000; goat and kid skins, 3,014,000 against 2,800,000 and sheep and lamb skins, 2,193,000 compared with 2,134,000. Prospects were held favorable for the production and sales of shoes in 1950 by the Council. Reasons for restrained optimism in shoe and leather trade circles include the fact that retail shoe sales in 1949, actually exceeded the volume in either of the two preceding years. As a result retail inventories are believed to be relatively low compared with any time since the shortage period of the war.

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100—August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
246.4	246.4	246.4	286.0	345.5

(For Current Prices see Page 9)

Chemicals

Bichromates — Consuming demand continued for moderate quantities, chiefly for prompt requirements. Market was steady and quotably unchanged.

Sodium Acetate—Demand was fairly active for actual requirements. Supplies were adequate, with production keeping pace with consumption. Quotations were without change.

Sodium Hydrosulphite—Business was of fair volume but restricted to prompt needs. Quotations were maintained at current levels.

Sulphonated Oils—Consumers confined demand to small quantities for immediate delivery. Prices were unchanged and steady.

Sizing Materials

Albumin Blood—Trading was still limited to prompt requirements, though inquiry was reported more active for Spring delivery. Quotations were unchanged for both albumin and dried soluble blood.

Corn Dextrin—Production reported sold up and moving steadily against former orders. Deliveries were still three weeks behind schedules. Prices were unchanged and steady and guaranteed against advance to March 31.

Corn Starch—Demand was fairly active for prompt needs. Market was steady at current levels. Prices were guaranteed against advance to March 31. Visible corn supply was increased 150,000 bushels to 44,427,000 bushels for the week ended March 18, against 28,456,000 bushels for the same time last year. Farmers plan to plant 82,765,000 acres of corn this year, 6 percent less than 87,910,000 acres planted in 1949, and 1939-48 average of 89,825,000 acres, according to the Department of Agriculture. The 1950 planted acreage would be the smallest in 50 years, reflecting the effect of acreage allotments in the commercial counties corn belt and in other important producing states. Yields have been far above average during the past two years.

Egg Albumen—Conditions in this market continued on a steady basis. Demand was fairly active for prompt delivery. Prices were maintained for all grades. Edible flake was sold at $1.30-$1.40 per pound, depending upon quantity and powder at 5c. more. Technical was well held at 78c. to 82c., on the spot, as to quantity. Production and Marketing Administration announced last week sales to the United Kingdom of 31,818,000 pounds of dried whole eggs at an average price of 22 cents per pound. The sales, which were made from Commodity Credit Corporation stocks of dried eggs acquired under price support programs, were financed under ECA funds, Section 32 funds, and British dollars. The above mentioned amount, together with other recent export sales and donations to public and private welfare organizations, reduce CCC's inventory of dried eggs to 52,000,000 pounds.

Egg Yolk—This market continued firm under a good demand. Supplies for prompt delivery were maintained at $1.10 to $1.15 per pound, depending upon quantity. Chinese yolk was in limited supply on the spot and remained firm with the higher cost of shipments. Spot stocks ranged from 99c. to $1.02 per pound, as to quantity. Tanner's yolk was quoted at 6½c. to 7½c. per pound, according to quality.

Potato Starch—Improved consuming inquiry has created a firmer tone. Inventories at Maine mills were said to be not heavy and carlots were maintained at 4¾c. per pound, f.o.b. mills. Government held starch was offered at 4½c., same basis. Consumers continued to limit demand to immediate needs, though large users showed more interest in summer requirements. Stocks on the spot were unchanged at 6½c. to 6¾c. per pound, exwarehouse as to quantity for Maine starch and 7c. to 7½c. for Idaho. Department of Agriculture reported indications that potato acreage would be reduced to 1,862,000 acres this year against 1,924,000 acres in 1949. The government sought to cut production far below the 402,000,000 bushels level.

Sago Flour—This market remained firm, reflecting the strength at primary sources. Stocks for prompt delivery were higher at 5½c. per pound, exdock. Shipments were well held at 5c. to 5.10c. per pound, exdock. Refined grade was maintained at 6½c. per pound, exwarehouse.

Tapioca Flour—Consuming inquiry for high grade and medium Brazilian grades continued slow, while low commanded more interest. Low grade Siamese also was in good request and was held at 4¼c. exdock. High grade Brazilian was unchanged at 8c. to 8¼c. per pound, exwarehouse, medium, 7½c. to 7¾c. and low, 7c.

Tanning Materials

Chestnut Extract — Moderate demand for immediate needs continued to characterize this market. Offers of powdered were more liberal, with 60 percent tanning quoted at 9.60c. per pound, carlots, works and less carlots, 11.15c. same basis.

Cutch—Consuming inquiry was spotty. Offers for shipment were maintained at former levels. Arrivals were reported at 2,100 bags at New York last week.

Mangrove Bark—Business was reported slow. Market was unchanged with shipments maintained at current levels. Offers for shipment were still restricted to the South American material. Some 1,400 bags were received at New York last week.

Myrobalans—Quiet demand for replacements lacked improvement last week. Recent trading was confined to prompt shipment. Imports totaled 2,845 bags at New York last week.

Quebracho Extract—Tanners confined interest in replacements to immediate shipment. Volume of trading was reported light. Primary market was unchanged and steady. Arrivals totaled 5,130 bags at New York last week.

Valonia—Trading was inactive. Offers of cups for shipment were maintained at former levels. Some 305 bags of valonia extract were received at New York last week.

Wattle—Offers for shipment of bark and extract were closely held at current quotations. New business was reported slow, but primary markets continued firm. Bark imports totaled 277 bales and 6,030 bags of extract at New York last week.

For Late Market Developments, See Page 4

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Agricultural Chemicals

An additional decline in steamed bone meal was recorded last week. The market appeared to be experiencing considerable competition from foreign sellers. Dried blood prices were fractionally lower under a relaxation of demand from the feed trade. The tone of the fish meal market was easier under freer offerings of foreign material. Thallium sulphate prices were sharply reduced with domestic suppliers protecting their market against foreign selling. There were no new changes in DDT or BHC prices. Both insecticides are definitely short on spot with production heavily sold ahead.

Ammonium nitrate is moving freely against contracts and so are nitrogen solutions. Coke-oven ammonium sulphate is not short for domestic use although recent government purchases have cleaned up converters' stocks temporarily. Potash shipments have been confined to contract consumers. Superphosphate shipments have improved but are not up to seasonal expectations.

Totaling 1,447,000 equivalent short tons, fertilizer tax tag sales during February, as compiled by the National Fertilizer Association, were second only to the record high for February chalked up in 1949. The February total was about 1½ percent below that of February, 1949. In the southern states, tags sold during the month were equivalent to 1,220,000 short tons or 5 percent less than during the same month of last year. In the midwest, however, sales totaling 227,000 equivalent short tons represented a 27½ percent increase over the corresponding figure of a year ago.

Exports of nitrogenous fertilizer materials in January amounted to 103,786,000 pounds, compared with 319,003,000 pounds in December and 85,513,000 in January last year.

Nitrogenates

Ammonium Nitrate—Demand for shipments active with production of domestic and Canadian heavily under contract leaving supply situation tight. No change in prices.

Ammonium Sulphate—January production of coke-oven sulphate was 136,624,775 pounds, according to the Bureau of Mines. There were also 6,483,863 pounds made from purchased synthetic ammonia. These amounts represented declines of 4.2 percent and 36.8 percent respectively from the preceding month. January sales amounted to 88,849,206 pounds and 6,508,863 pounds from purchased synthetic ammonia, declines of 9.4 and 33.1 percent respectively from December. Stocks on January 31 were 186,908,165 pounds, compared with 139,404,001 pounds on December 31, 1949 and 49,409,383 on January 31, 1949. Current stocks of coke-oven sulphate are not short for domestic use. Supply of converter's stock has tightened temporarily owing to recent heavy government purchases for export. It was stated there are still inquiries in the market for India and Italy that have not been covered.

Bone Meal—Steamed was priced lower at $60 per ton with other grades unchanged at $62.50. Imported meal for shipment was priced at $58. Market position competitive owing to continuance of foreign importations.

Dried Blood—Market lower with feed trade showing no aggressive interest. Chicago named $7.50 per unit of ammonia and New York $7.75.

Fish Meal—Quantity processed by firms that normally produce 92 percent of the total yield amounted to 10,922 tons in January, approximately 5,000 tons more than in the corresponding month in 1949, according to the Department of the Interior. Large increases occurred in the production of both pilchard and menhaden meal, the former showing 5,411 tons and the latter 3,364 tons. Total output for 1949 amounted to 205,476 tons including 107,596 tons of menhaden. Baltimore market unchanged but not firm at $160 per ton for menhaden. Foreign fish meal $155 for shipment. Heavy importations recently have weakened the market's position.

Sodium Nitrate—Buying interest continued fair with sales embracing seasonal dimensions. No shortage of stocks either domestic or imported at present.

Tankage—Buyers supported the market at former price levels. Sales at New York reported at $8 per unit of ammonia and at $9 at Chicago.

Market Trends

Prices Advanced
None

Prices Reduced
Bone meal, $2.50 per ton.
Dried blood, 25c. per unit of ammonia.
Thallium sulphate, $2.50 per pound.

Comparative Price Indexes
(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
81.6	81.6	81.6	81.6	81.6

(For Current Prices see Page 9)

Phosphates

Phosphate Rock—Remained quiet for export and it looked as though most of the foreign requirements for the Spring season have been covered. Domestic demand has continued to hold a fair average for this period of the year. Stocks have been kept at a level to insure prompt shipments.

Superphosphate—Shipments of normal have gained during the month but the combined movement has not been up to general expectations. Stocks so far have continued sufficient to meet requirements promptly. The outlook favors additional expansion through April. There was no change in prices.

Potashes

Sustained production and steady shipments have placed the market for domestic as near normal as could be expected after the serious cutback occasioned by the recent strike at Carlsbad. Demand has remained heavy. Reports were current that imported shipments are late in arriving. So far no important delays have been revealed and it is stated that the major part of shipments is coming through in a satisfactory manner. Demand for foreign potash has relaxed and the market is lower for Russian material.

Los Angeles Fertilizer Market

Los Angeles.—Increased demand for fertilizers has improved the market considerably. With the impetus in demand, the supply situation is affected to the extent that ammonia nitrate and ammonia sulphate are now very tight. Transportation conditions have hindered incoming shipments of these two materials for some time and local supplies are now short with replenishments slow. Prices were firm all week with no price changes quoted for any items. Organic fertilizers have lagged behind in comparison with the calls for inorganic materials.

Pesticides

Buying interest in BHC and DDT continued active last week, with the shortage of stocks having a restricting influence on sales. Some suppliers have their production sold through July on DDT and through August on BHC. The Spring demand for other insecticides has shown no unusual activity to date.

Household Insecticides—November exports totaled 1,756,000 pounds, compared with 675,000 in the preceding month, and were the highest for any month in 1949. Principal countries of destination were Korea, 386,000 pounds, the first shipment to that country in 1949. Ceylon, 260,000 pounds, Colombia 169,000, Indonesia 153,000, Venezuela 121,000, Italy 114,000, Greece 110,000 and Canada 101,000 pounds.

Ryania—Available now at 20c. per pound for 100 percent in 50-pound 4-ply paper bags, f.o.b. the works. This is a new botanical insecticide that comes from South America and has been found particularly effective against the European corn borer, corn smut, sugar cane borer and cranberry fruit worm.

Thallium Sulphate—Prices were lower last week, with stocks available at $10.50 per pound for 10-pound lots, delivered, and a range upward to $13 for smaller lots. Domestic suppliers are meeting foreign competition.

Sulphur

Miscellaneous consuming demand has continued at a relatively high level and shipments from mines have remained steady. Production has been sustained sufficiently to keep stocks readily available for prompt shipment.

Brazil continued in the first half of 1949 to purchase most of its imports of sulphur from the United States. Total imports of this material in that period amounted to 16,193 metric tons, valued at $639,900. The United States supplied 15,433 tons ($599,800).

For Late Market Developments, See Page 4

CSMA Names Chairmen Of 1950 Committees

The Chemical Specialties Manufacturers Association has appointed its committees for the 1950 year. The chairmen of the various groups are as follows:—

General Committees

Executive, C. L. Weirich, C. B. Dolge Company; legislative, G. S. McInerny, Boyle-Midway, Inc.; toxicity, Dr. Clyde W. Kearns, University of Illinois, with C. Kampmeier, Rohm & Haas Company, as vice-chairman; program, M. Fuld, Fuld Brothers, Inc., with J. Rodda, U. S. Industrial Chemicals, Inc., as vice-chairman; associate members, J. M. Hoerner, Atlantic Refining Company; membership, John Powell, Powell Magazines, Inc., and D. W. Lynch, Velsicol Corporation, co-chairmen; arrangements. Ira P. MacNair, MacNair-Dorland Company, and entertainment, J. E. Ferris, Niagara Alkali Company.

Aerosol Division

Administrative, H. E. Peterson, Continental Filling Corporation; scientific, E. G. Young, Kinetic Chemicals, Inc.; program, H. R. Shepherd, Connecticut Chemical Research Corporation; legislative, H. W. Moburg, Rex Research Company, and membership, R. S. Knapp, Knapp-Monarch Company.

Disinfectants, Sanitizers Division

Administrative, Dr. E. G. Klarmann, Lehn & Fink Products Corporation; scientific, W. A. Hadfield, Pennsylvania Salt Manufacturing Company; subcommittee on disinfectants, R. S. Shumard, Monsanto Chemical Company; subcommittee on sanitizers, R. G. Puhle, Tykor Products Division, Borden Company; subcommittee on antiseptics, G. F. Reddish, Lambert Pharmacal Company; marketing, J. B. Dienna, Rohm & Haas Company; chemical analysis, G. R. Goetchius, Rohm & Haas Company; program, Dr. H. G. Lederer, R. M. Hollingshead Corporation; legislative, P. L. Robbins, George B. Robbins Disinfectant Company, and membership, Donald M. Martin, General Dyestuff Corporation.

Insecticide Division

Administrative, T. Carter Parkinson, McCormick & Co.; scientific, E. J. Campau, Standard Oil Company, with D. F. Starr, S. B. Penick & Co., as vice-chairman; advisory, F. O. Hazard, Wilmington College; chemical analysis, R. C. Haring, John Powell & Co.; program, James A. Green, Standard Oil Company of Indiana; legislative, C. L. Fardwell, McCormick & Co., and membership, G. W. Fiero, Esso Standard Oil Company.

Soap, Detergents, Sanitary Chemicals

Administrative, H. W. Zussman, Alrose Chemical Company; scientific, J. Harris, Monsanto Chemical Company; program, H. W. Zussman, and legislative, Herbert Kranich, Kranich Soap Company.

Waxes, Floor Finishes Division

Administrative, Bayard S. Johnson, Franklin Research Company; scientific, C. S. Kimball, Foster D. Snell, Inc.; marketing, M. J. Flanagan, Federal Varnish Division; program, C. L. Weirich, C. B. Dolge Company; legislative, G. S. McInerny, Boyle-Midway, Inc., and membership, A. L. Sodergreen, West Disinfecting Company.

Fertilizer Oct.-Dec. Sales In California Reported

The department of agriculture of the State of California has reported sales of commercial fertilizers and agricultural minerals during the quarter ended December 31, 1949. The data are as follows, in tons:—

Commercial Fertilizers

Mixed commercial fertilizers	31.567
Ammonium sulphate	19.253
Superphosphate, normal	16.145
Ammonium phosphate-sulphate (16-20-0)	13.717
Ammonium nitrate	13.035
Superphosphate, treble	5.259
Calcium nitrate	3.871
Ammonium nitrate solution	2.319
Activated sewage sludge	2.119
Liquid phosphoric acid	1.783
Ammonia liquor	1.523
Urea	1.453
Ammonium phosphate (11-48-0)	1.444
Calcium cyanamide	1.184
Liquid mixed fertilizers	976
Potassium chloride	672
Sodium nitrate	531
Potassium sulphate	460
Bone meal	246
Seed meals	186
Blood meal	174
Tankage	130
Fish meal	108
Miscellaneous	374
Not segregated by registrant	5.002
Total	123.531

Agricultural Minerals

Gypsum	105.503
Sewage sludge	8.925
Soil sulphur	4.392
By-product lime	2.398
Limestone or marl	2.207
Mixed agricultural minerals	1.801
Sulphuric acid	1.631
Lime sulphur solution	718
Metallic salts	368
Hydrated lime	218
Phosphate rock	203
Vermiculite	68
Miscellaneous	474
Total	128.906

Penick Describes "Ryania"

S. B. Penick & Co., New York, has published a booklet describing the properties and uses of "Ryania," its new insecticide which is recommended for use against the corn borer, the sugar cane borer and other insects of economic importance.

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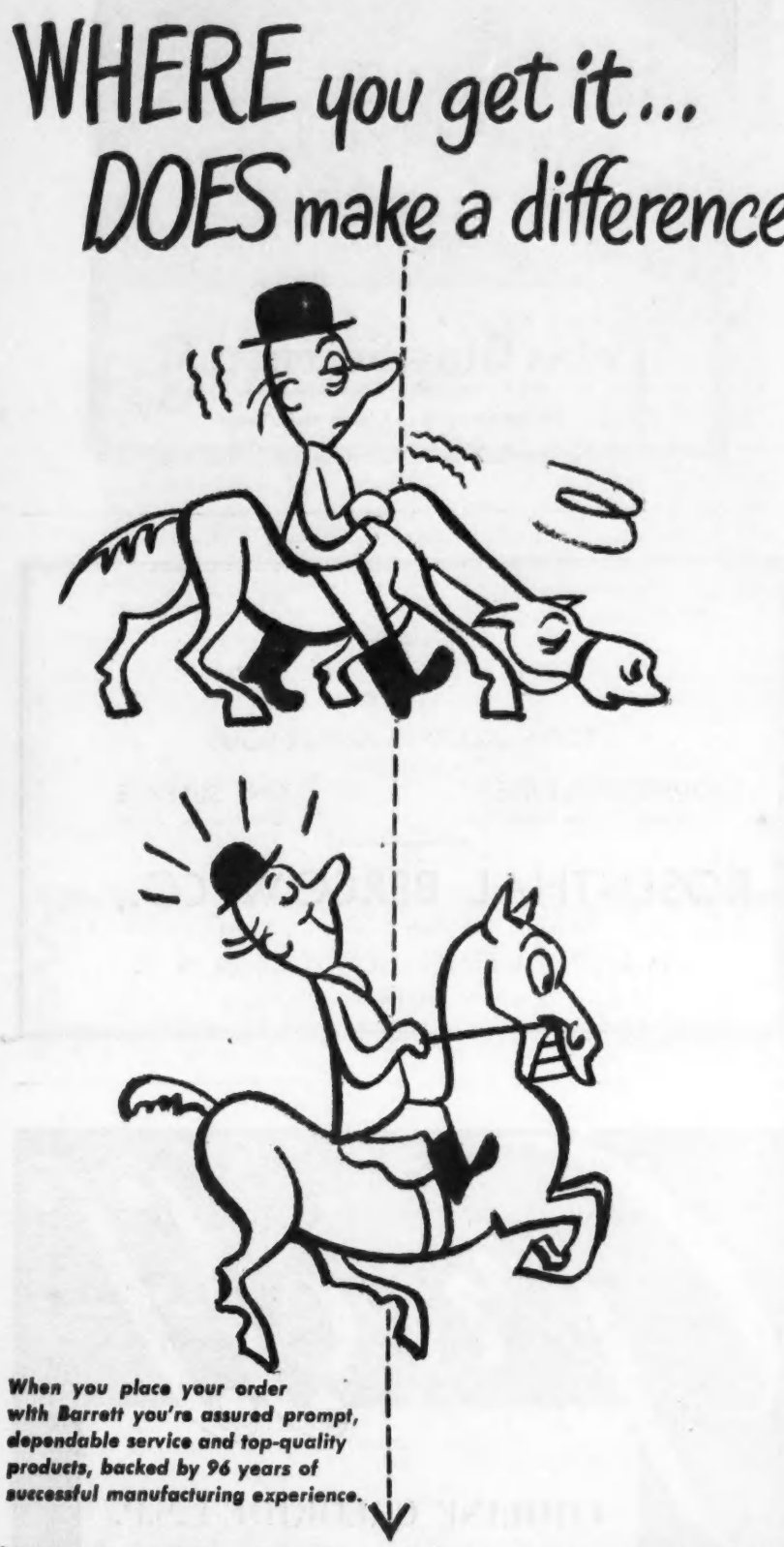
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Coaltar Chemicals

Price stability characterized the coaltar chemical market last week, with both consumers and producers considerably more concerned with availability of materials than with price. Benzol and its major chemical derivatives such as phenol, styrene, and anilin were in short supply. Benzol was the most critical of all coaltar chemical materials. Cresylic materials were short. Naphthalene and its derivatives were plentiful.

Creosote moved in good volume in a firm market, with supplies abundant but not excessive. Imported cresylic acid was available at prices essentially unchanged from those which prevailed a month ago. Pyridin of the refined grade used in organic syntheses was still much on the short side.

Price structures prevailing in the first quarter will continue to hold for the second quarter on such items as cresylic acid, cresols, orthocresols, naphthalenes, and coaltar aromatic solvents. Second quarter changes in basic coaltar materials were confined to phenol, and in intermediates to a limited number of benzene derivatives.

The American Iron and Steel Institute reported the operating rate for the week ended March 25 as 95.5 percent of capacity based on reports from companies representing 93 percent of the steel producing industry. This rate was equivalent to 1,820,500 tons of ingots and castings compared with 1,711,800 tons the previous week, and 1,863,800 tons one year ago.

Basic Products

Benzol—The sustained heavy demand in this market permitted no apparent easing of the critical supply which has plagued consumers and producers alike in recent weeks. Almost as bad as the existing shortage was the bleak prospect for any improvement in the situation. Benzol was expected to remain short during the months ahead, if not for the balance of the year, because of the heavy requirements of the material for large volume chemical items such as anilin, nitro and chlorobenzenes, phenol, and styrene for plastics and rubber. Prices were expected to hold for the second quarter at levels established for the first quarter.

Cresols—The various grades, particularly those used in synthetic resin manufacture were still in short supply, and there was no reason to expect any easing in the weeks immediately ahead. There was, however, a certain feeling expressed with respect to the long range view of the market to the effect that late Spring might well see a considerable easing of the current shortage. Price schedules in effect over the first quarter were expected to carry over for the second quarter.

Creosote—Supplies were regarded as quite ample but not excessive to the point where there was any great storage problem. Material was said to be moving in a steady flow of sufficient volume to prevent heavy accumulation of stocks.

Prices were still in their former position having been held firm over recent months, in which tankcars of crude material were quoted on a freight equalized basis at 18c. per gallon. Most quarters expressed the feeling that this price level was likely to hold during the next quarter, while in some quarters the feeling was expressed that prices should be adjusted upward fractionally. Whether or not this would develop was a matter of conjecture.

The current price structure on the 80 percent solution of creosote was maintained at 16.8c. per gallon in tankcars. The crystal free refined material in tankcar quantities was priced at 23½c. per gallon. Both of these materials were quoted at these levels on an f.o.b. works basis.

Coke By-Products

Estimates of by-product cokeoven operations in the week ended March 11 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	774,219
Ammonia sulphate	lbs.	20,048,212
Benzol	gals.	2,526,400
Coaltar	gals.	9,372,133
Creosote oil	gals.	321,379
Naphthalene, crude	lbs.	1,238,641
Phenol	lbs.	146,694
Toluol	gals.	505,280
Xylol	gals.	114,095

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
107.4	107.4	107.3	110.1	137.9

(For Current Prices see Page 9)

Cresylic Acid—Domestically produced coaltar acid was in short supply against a heavy demand. Prices established at the first quarter were felt certain to carry over for the second quarter. The current short supply and strong demand was expected to continue for some weeks, but there was seen in the late Spring some possibility of a much better balance between supply and demand.

Imported cresylic acid of the American duty free pale grade acid 99-100, was quoted c.i.f. at a range of 46c. to 50c. per gallon. The great bulk of acid quotations were at the higher levels, but large substantial purchases could be made at prices below 50c. per gallon. Some small lots were reported to have moved at prices somewhat above the market levels of around 50c. per gallon, but any significant quantities of imported acid could not command any higher price competitively.

Naphthalene—The second quarter price structure on all grades of naphthalene was expected to be identical with that which prevailed throughout the first quarter. Supplies of this item were abundant, which assured a steady flow of chemical intermediates derived from naphthalene. Demand for crude grades for chemical intermediate use was described as holding up well, and the Spring mothproofing demand for refined naphthalene was beginning to break. The easy supply position of naphthalene as a whole, compared with the shortage of most coaltar basic derivatives, was due to the heavy tonnage of imported naphthalene which has been arriving at American ports over recent months.

Phenol—Demand for all grades continued heavy. The uniformly higher price levels established in the market for natural phenols during the previous week was quite evidently to be the price pattern over the next quarter. These prices, which were set 1 cent per pound higher than previous schedules, become effective on contract April 1. They were effective as of March 10 on spot sales, but there was in the present shortage virtually no material available for spot sale.

Spot sales of synthetic phenol were just as lacking because of the shortage of material, so that the present price spread of ¼ cent per pound on spot material was of little significance. The effective contract price which will prevail in the market effective April 1 was felt likely to settle at 12¾ cents per pound.

Pyridin—There was nothing new to report on various grades of pyridin, since the refined grade had reached a uniform price pattern of 79½ cents per pound in carlots and 80 cents in less than carlot drum quantities the previous week. Supplies of refined material for use in organic chemical and pharmaceutical syntheses remained in relatively short position in all quarters. Against these limited stocks was a strong demand. The denaturing grades were abundant as usual.

Solvent Naphtha—There was a sustained heavy demand for all grades of solvent naphtha, and coaltar source material was in a critically short supply. No immediate relief from the current shortage was expected, because the backlog of demand was felt to be such that the increased output following settlement of the coal strike would provide hardly more than a gradual easing of supplies over the months immediately ahead. Prices maintained their firm levels of recent months.

Toluol—There was a definite shortage of coaltar source material, and supplies were not expected to ease more than very slightly and gradually over the months immediately ahead. Prices were expected to hold for the second quarter at the same level which prevailed during the first.

Xylol—Prices for the second quarter were expected to hold at levels which prevailed during the first quarter. Supplies were critically short on coaltar source material.

Intermediates

Alphanaphthol—There was plenty of this intermediate available, as a consequence of the abundant naphthalene sup-

For Late Market Developments, See Page 4

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ply, and prices were firmly held at 70c. per pound.

Alphanaphthylamine — There was an adequate supply of this chemical intermediate reported available. Prices maintained the firm position which has characterized the market over recent months, in which barrels were quoted at 41c. to 42c. per pound.

Alphanitronaphthalene—The price of 34c. per pound quoted on this chemical was unchanged from the firm level which has prevailed in the market for many months. Supplies were regarded as quite adequate to take care of the current demand, and in view of the ample supply situation prevailing in the crude naphthalene market there was no shortage of the item likely to develop.

Aminoazotoluene—A steady and firm price of $1.03 per pound was quoted in this market over a long period, and remained unchanged. Supplies were not abundant, but were generally adequate to take care of the current consuming needs.

Benzidin Base—A steady demand at a good volume was reported on this intermediate. Prices were held unchanged at $1.02 per pound. Supplies were said to be adequate.

Betanaphthol—The technical grade was firmly priced at 30 cents per pound in carlot quantities and 32 cents in less than carlot quantities. Demand was reported to be holding up to a good level, and supplies were abundant.

Metachloroanilin—The 75 cents per pound price prevailing in this market over recent weeks remained unchanged. Demand was reported as good and supplies were not regarded as tight although inventories were low and kept that way by the good demand and turnover.

Orthoanisidin—The ortho was priced at the same level as the para, both being quoted at 80 cents per pound in barrels. Demand was steady and said to be maintaining a good volume.

Orthonitroanilin — Flake material in quantities of 10,000 pounds or over was quoted at 50 cents per pound while smaller quantities were priced at 53 cents. The powder in 10,000 pound lots or more carried a 6 cent higher price differential being quoted at 56 cents, and lesser quantities at 59 cents.

Para-anisidin—Barrel quantities were firmly priced at 80 cents per pound, and demand was such that the product moved in a good volume at a steady rate.

Phthalic Anhydride—Most all producers of this item, whether it was being made from naphthalene or from orthoxylene, were in a long supply position. In general, business was noted as somewhat better this month than last, and February was better than January, but still the demand was not such as to move stocks promptly and inventories were reported as heavy. Prices were maintained at former levels, and with naphthalene holding its firm price position, there was no price change in phthalic expected in the weeks immediately ahead.

Tar Acid Oils—Present price structures maintained over recent months were viewed late last week as likely to hold because of sustained high costs. Demand was moderately good, and supplies were regarded as adequate.

Burgess Adds to Line

The Burgess Pigment Company, Paterson, N. J., has added four products to its line. They are:—"Burgess Neo Brown," a mineral oxide mixture designed for the manufacture of heels and soles; "Burgess P O S J Brown," a mineral oxide mixture for use in jacketed portable cords, and "Burgess Buta Reds," synthetic red oxides designed for use in natural and synthetic rubber compounds. Further information may be obtained from the company at 64 Hamilton street, Paterson.

OTS Offers New Bibliography

Three hundred and thirteen technical documents, most of them available to the American public for the first time, are listed in the current issue of the "Bibliography of Technical Reports," now available from the Office of Technical Services, Department of Commerce. The documents, all accompanied by abstracts or subject catalog descriptions, are derived principally from federal or federally sponsored research. Technical reports from Germany, Russia, Britain, Canada, France, Sweden, Japan and Italy are also included.

Subjects covered include chemicals, detergents, plastics, paints, chemical engineering, medical research, metals, minerals, rubber, and others. Separate sections are devoted to patent collections, and acquisitions by the OTS reference service.

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ECA Authorizations

—Continued from page 4

tions of $900,000 during the month for nitrogenous fertilizers and the cancellation of $200,000 of authorizations for other types of fertilizers. The new authorizations raised the total of all fertilizer authorizations to date to $42,500,000. Other authorizations of February were:—

Nonferrous metals and products authorizations totaled $5,400,000 for the month raising the cumulative total to $512,500,000. The new authorizations were for aluminum, $8,300,000 and "other" products, $300,000. Cancellations outweighted new authorizations for other products as follows, copper, $2,100,000; zinc, $500,000; lead, $100,000; brass and bronze, $100,000; nickel, $400,000.

Fats and oils totaled $300,000 for the month raising the cumulative total to $310,700,000. New authorizations consisted of $300,000 for peanuts; $1,400,000 for soybeans; and $200,000 for tallow. Cancellations were $600,000 for flaxseed; $400,000 for copra; $100,000 for oilseeds; $500,000 for lard, and $100,000 for "other."

Metallic ores and concentrates, $7,800,000 for a cumulative total of $82,600,000; hides, skins and leather, cancellation of $800,000 for a cumulative total of $72,900,000; nonmetallic minerals, $1,000,000 for a cumulative total of $72,600,000; naval stores, $2,100,000 for a cumulative total of $22,000,000.

Among the new procurement authorizations issued to Marshall Plan countries during the period March 16 through March 23 by the Economic Cooperation Administration were the following:—

To Austria—$100,000 for chemicals from the United States.

To Denmark—$1,326,000 for petroleum products from the United States; $2,527,000 for the same from Latin America and $167,000,000 for the same from the Middle East.

To France—$575,000 for nitrogenous fertilizers from Latin America; $2,500,000 for copper from Latin America; and $550,000 for copper from Canada.

To French North Africa—$700,000 for copper, $755,000 for tinplate, terneplate and blackplate, and $26,000 for agricultural pesticides from the United States.

To Greece—$20,000 for vegetable tallow and wax from Latin America and the United States.

To Iceland — $209,000 for petroleum products from Latin America.

To Italy—$625,000 for nitrogenous fertilizer, and $150,000 for agricultural pesticides from the United States.

To Netherlands—$60,000 for petroleum from the Middle East.

To Korea—$2,250,000 for phosphate and other fertilizer materials from the United States and Canada; $6,431,000 for nitrogenous fertilizer from the United States; $200,000 for chemicals from the United States and $300,000 for chemicals from Japan.

To Norway—$30,000 for vegetable tallow and waxes, exclusive of soap stock, from the United States.

To Sweden—$2,700,000 for petroleum from Latin America and $1,500,000 for the same from the Middle East; $1,400,000 for petroleum from the United States.

To United Kingdom — $3,000,000 for dried eggs and $440,000 for copper from the United States.

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Barium Metaphosphate

Ceramic—Suggested as a pacifying agent in glazes.

Glass — Ingredient of special-type batches.

Dihydroxydichlorodiphenylmethane

Textile—Preservative for various fabrics.

Ethyl-4:4'-diaminodiphenylsulphone 2-Carboxylate

Chemical—Claimed (U.S. 2336210) as useful intermediate.

Pharmaceutical—Claimed (U.S. 2336-210) as pharmaceutical agent.

Isopropyl Chloride

Analysis—Extractant and solvent for fats.

Chemical—Intermediate in syntheses of organic chemicals, such as isopropylamine and isopropyl acetate.

Fats, Oils, and Waxes—Extractant and solvent for fats.

Food—Extractant and solvent for fats and greases.

Leather—Extractant and solvent for fats and greases.

Lubricant—Solvent in lubricating compositions.

Mechanical—Extractant for removing fats and greases from cotton, wool waste, leather belting, and the like.

Miscellaneous—Solvent in coating, dressing, finishing, impregnating, polishing, softening, and waterproofing compositions.

Pharmaceutical—Solvent for fats and greases in various preparations.

Photographic—Solvent for removing fat and grease stains from film.

Printing—Solvent for cleaning engraved plates, type, printing machinery, lithographic stones, and other equipment.

Soap—Solvent for fats and greases in various formulations.

Textile—Solvent for fats and greases.

Methane-Sulphonic Acid

Chemical—New organic compound, strongly acid, nonoxidizing, water-soluble, light in color, suggested for experimental use especially as a catalyst.

Magnesium Pyrophosphate

Ceramic—Ingredient of enamels, porcelains.

Methallyl Orthobenzoylbenzoate

Resin—Starting point (Brit. 587063) in making polymerized (alone or with compounds) products suitable for moulding or for use in making filaments, lacquers, adhesives, and the like.

4-Methyl-4-penten-2-ol

Chemical—Starting point in making acetaldehyde or isobutylene (by vapor phase reaction over aluminum oxide); esters by reacting with organic acids and anhydrides; 2-methylpentadiene (by dehydration in the presence of acid catalysts); substituted dihydropyrans and substituted tetrahydro-4-pyranols by reacting with aldehydes and ketones (in the presence of acidic catalysts).

Octylphenol

Chemical—Intermediate suggested for use in making antioxidants, corrosion-inhibitors, dispersing agents, pharmaceutical compounds, rust-preventives, wetting agents.

Disinfectant—Phenol coefficient of 158 suggests its use as bactericide and preservative.

Dye—Intermediate suggested for use in making synthetic dyes.

Miscellaneous—Stabilizer for ethylcellulose compounds (1 percent to 3 percent on the weight of ethylcellulose is claimed materially to improve stability to heat and ultraviolet light).

Petroleum—Intermediate suggested for use in making antioxidants, corrosion-inhibitors, rust-preventives.

Parahydroxydiphenylamine

Chemical—Suggested for experimental use as antioxidant, polymerization-inhibitor, stabilizer, and in organic syntheses, especially of pharmaceuticals.

Dye—Suggested for experimental use in manufacture and stabilization processes.

Explosives—Suggested for experimental use in manufacture and stabilization processes.

Petroleum—Suggested for experimental use in stabilization processes and research.

Photographic — Suggested for experimental use in stabilization and manufacturing processes and in research.

Plastics—Suggested for experimental use in stabilization and manufacturing processes and in research.

Soap—Suggested for experimental use in stabilization processes.

Polybutenes

Adhesives—Adhesive ingredient which is resistant to moisture and oxidation, is stable, and has particular adhesive properties and tackiness.

Ingredient of label adhesives, industrial and surgical tapes, leather cements, and other formulations.

Automotive — Ingredient of hydraulic shock-absorber fluids.

Chemical—Starting point in syntheses of organic chemicals.

Electrical—Impregnating agent for paper insulation.

Liquid dielectric in liquid insulated conductors, variable condensers.

New material with high dielectric strength, low power factor, moisture resistance, resistant to oxidation, stability, tackiness.

Ink—Ingredient of cartridge and paste inks.

Leather—Ingredient of emulsified flexibilizing and moistureproofing compositions.

Metallurgical—Ingredient of compositions used in extrusion processes, molding powders (withstands high operating temperatures, is noncharring, and has clean burn-off).

Miscellaneous — Ingredient of waterproofing coatings for porous materials.

Pesticide—Imparter of moisture resistance and tackiness in insecticidal compositions.

Rubber—Ingredient of emulsions for extenders and modifiers of latex.
Plasticizer in rubber milling.
Softener for rubber compounds.
Tackiness increaser for rubber base cements.

Sodium Pectate

Brewing—Clarifier for beer.

Ceramic—Protective colloid in cement setting.

Cosmetic—Potential thickener, stabilizer, and clarifier in various preparations.

Dairy—Gelling agent for milk by-products.
Stabilizer for artificial cream, ice cream.

Food—Clarifier for fruit juices.
Gelling agent in candy and other confectionery, jams, jellies.
Stabilizer in mayonnaises, sherbets.
Thickener in soups.

Ink—Potential thickener in printing inks.

Metal-Fabricating—Potential ingredient of cutting and drawing lubricants, viscous quenching mediums.

Miscellaneous—Potential emulsifier for essential oils.

Packaging—Potential impregnating agent for bags for sticky substances, such as bitumen and raw rubber.

Paint, Varnish, and Lacquer—Proposed as process material in making finely divided pigments.

Paper—Potential clarifying agent for liquors used in manufacturing process.
Potential oil-proofing agent for paper.

Pharmaceutical—Suggested for use as binder, clarifier, emulsifier, excipient, gelling agent, protective colloid, stabilizer, thickener.

Rubber—Potential creaming agent for latex.

Potential thickener for latex and sponge rubber.

Soap—Potential thickener in dentifrices and shaving creams and soaps.

Textile—Potential base material for making filaments and threads (suggested possibilities are that the filaments can be extruded as fibers and woven directly into fabrics; they can be used as a film coating on other fibers, such as very fine woollen thread which it would not otherwise be possible to deave, after weaving the film can be dissolved away leaving a pure woollen fabric of extremely fine texture).

Zinc Hydrosulphite

Chemical—Reducing agent for various purposes.

Miscellaneous—Bleaching agent for various purposes.

Paper—Brightening agent for pulp.
Decolorizing agent for pulp.

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EBC	98.8	1.047	1.5300	101.5°C/15mm.	22.7
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Petroleum Derivatives

Conditions in the market for petroleum derivatives were in a largely unchanged position during the past week. With the strike in the coal industry now pretty well in the background, the market for toluol and xylol had settled down a good bit. However, there were some sections of the industry that had reported that even during the time of the strike there was not a great added call for material of petroleum origin. They felt that consumers had had a warning of the strike and were fairly well prepared to meet it. In other quarters there had been a considerable added demand but this was beginning to taper off as of last week.

Higher boilers were in about the same position they had been in. Demand was holding up fairly well but in some sections of the industry it was said that supply was a bit snug. Blends were in good demand and in the mid-west it was reported that the call was showing a better tone. Aliphatics were largely without change but with the warm weather coming on and increased activity anticipated in the paint industry, it was thought that there might be an added demand for them before long.

Lighter fractions were without special feature. Butane and propane were still in reasonably good demand and supply was up to the call. The coming of warm weather, however, was expected to have some reaction on the market for these lighter fractions.

The Texas Railroad Commission last week announced an increase of 130,375 barrels per day in April oil allowables, the first boost in the state's monthly output since November. Petrolatum and white mineral oils during the week were in an unchanged position, with domestic demand good but foreign call not up to hoped-for levels.

Solvents and Diluents

Aromatic Solvents—Demand was still holding up at levels that were characterized as fair to good. The ending of the strike in the coal industry had naturally brought with it some falling off in demand from those who normally use coal-tar material. However, this was affecting the different segments of the industry in different ways. During the strike some stated that they were just about swamped with orders from customers who normally use petroleum toluol and xylol. In other sections, it was reported that the demand resulting from the strike was not of great proportions. Therefore, the end of the strike was having varying effects on different producers. The general supply situation still had a note of tightness to it. Stocks were not so short that they were causing any widespread and severe hardship, but they were still not abundantly free. Prices held at their previous levels during the period under review and there were no indications that there would be any revisions in the immediate future.

Higher boilers were without particular change. Demand was reasonably good and could generally be characterized as normal. The condition of supply was reported to range from sufficient for the needs of the market to just a bit on the snug side. Prices were stable and showed no indications of undergoing any changes at this time. Demand for blends was generally reported to be holding up to good levels. Some parts of the industry called it particularly good and said that the call was coming in well from the mid-west.

Cleaners' Naphtha — Demand was reported to be running to fairly good levels, as it had been in the recent past. The supply was at a point sufficiently high to make it possible to accommodate normal orders without particular difficulty.

Lacquer Diluent—Supplies were slightly on the strong side but that was causing no particular concern in the market. This was normally the time when seasonal influences would have their effect and it was said in some parts of the trade that business was showing signs of perking up.

Mineral Spirits — Demand was holding up to normal levels with indications of a better tone for the spring business. Supplies were ample and covering the needs of the market was presenting no particular difficulty.

Rubber Solvent — Demand was holding up reasonably well, and for this time of year it was considered to be about normal. Supply was at levels sufficiently good to satisfy the needs of the market with no particular difficulty.

Stoddard Solvent—Prices were without fluctuation during the past week and there were no signs of any revisions to come in the immediate future. Demand was holding up fairly well but was not so high as to be called heavy. Supply was good and tended toward the heavy side.

V. M. & P. Naphtha—Supply was holding up at good levels last week and there were no difficulties being encountered in filling the needs of the market. Demand was running reasonably well and it was expected that the usual pickup in the paint industry at this time of year would do something to stimulate sales.

Lighter Fractions

LPG's—Enough butane and propane was available to satisfy the market without difficulty. Demand was holding up at reasonably good levels, although now that warm weather was approaching an easing in the call would be the usual thing. When that would come about depended on what the weather would do and this being the uncertain month of March, none could say. It was expected that about the middle of May would see a noticeable easing.

Miscellaneous

Fuel Oil—Prices on No. 2 and diesel oils were cut 3/10c. to 9/10c. per gallon on the eastern seaboard last week. In actuality, they amount to less than that indicated since verbal discounts previously offered were eliminated.

Petrolatum — Demand was running at good levels last week, especially for the whites. Domestic call was better than export. Supply in general was satisfactory, but with the demand for the whites running well, there were no great inventories of stocks being built up. There were no changes reported in the price listings and none were indicated for the immediate future.

White Mineral Oils—Domestic call was holding up to good levels, although foreign was still not so strong as sellers would like to see it. Supply held at sufficiently high levels to satisfy the market's needs with no particular difficulty. Prices held at previous levels with no indications that there would be any revisions in the immediate future.

Market Trends

Prices Advanced
None

Prices Reduced
None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended March 11 totaled 245,702,000 barrels, according to the Bureau of Mines. Compared with the total of 246,454,000 barrels for the preceding week, this represents a decrease of 752,000 barrels, comprising a decrease of 1,126,000 barrels in stocks of domestic crude and an increase of 374,000 barrels in stocks of foreign crude.

Los Angeles Petroleum Market

The market remained firm throughout the week as demands were heavy enough to keep the material moving freely through the market. Supplies are currently adequate to meet all call with no surplus accumulating. Prices remain unchanged and are posted as follows:—Cleaning solvent from 15½c. to 19½c. per gallon, tankwagon, ex-tax, f.o.b. Los Angeles basin area. Lacquer diluent from 16½c. to 20½c. per gallon, same basis, and stoddard solvent from 13.7c. to 19.5c. per gallon, same basis.

The L.P.G.'s have lost their strong market position as the seasonal cycle rapidly tapers off. Surplus stocks are building up and it is expected that attempts will be made to push these with out-of-state sales. The market is weak at present and posted prices, as listed below, do not necessarily rule. Propane posted at 6.3c. per gallon, tankcars, f.o.b. Los Angeles basin area and butane is posted at 5.8c. per gallon, same basis.

Tankcar prices are off a fraction from last week's listings. This represents the first drop price-wise to hit the local market since early in 1949. Supplies were a little heavy for all refiners and attempts to move them resulted in this decrease. Prices are currently quoted as follows:—140/147 ASTM, carload loose slabs, f.o.b. shipper's refinery, San Francisco, quoted at 6.95c. per pound. 146/148 ASTM, same basis, at 7.15c. per pound. 157/162 ASTM, same basis, at 7.6c. per pound. Tankcar prices listed at 6.05c., 6.25c. and 6.9c. per pound respectively.

For Late Market Developments, See Page 4

Obituaries

Sir Norman Haworth

Sir Norman Haworth, a Nobel Prize winner in chemistry who carried out wartime atomic research at the University of Birmingham, died March 18 at his home in Birmingham, England. He was sixty-seven years old.

Sir Norman served as professor of chemistry at Birmingham University from 1925 until his retirement last year. He began investigations of the chemistry of ascorbic acid in 1932, and in the following year synthesized it and identified it with vitamin C. In 1937 he received and shared the Nobel Prize with Prof. Paul Karrer, Zurich, Switzerland, for studies of carbohydrates and vitamins. He was knighted in 1947.

Dr. Marion L. Jacobs

Dr. Marion L. Jacobs, dean of the pharmacy school of the University of North Carolina, died March 19 while on a fishing trip in Swansboro, N. C. He was fifty-one years old. Dr. Jacobs had taught at the University of Nebraska and the University of Colorado before joining the faculty in 1926. He was appointed assistant dean of the pharmacy school in 1945 and dean a year later.

Dr. Herbert M. Kaufmann

Dr. Herbert M. Kaufmann, chairman of the board of directors of the Mutual Chemical Company of America, New York, died March 20 at his home in that city. He was seventy-nine years old.

Dr. Kaufman had joined the Mutual Chemical Company, Jersey City, N. J., in 1896 as chemist, superintendent and works manager. That company was merged with the American Chrome Company to form the Mutual Chemical Company of America in 1908, and Dr. Kaufmann became its president in 1933. He served in that position until 1943, when he became chairman of the board of directors.

Charles C. Teague

Charles C. Teague, president of the California Fruit Growers Exchange, died March 20 of a heart ailment. He was seventy-seven years old.

Mr. Teague became president of the fruit growers exchange in 1912, when it was a young organization, moderately successful, but no more so than several predecessor cooperatives that had failed to keep unity among the California ranchers. Under the guidance of Mr. Teague, who owned large fruit and walnut ranches, the organization expanded until it handled more than 90 percent of the state's citrus crop.

He also served as first president of the California Walnut Growers Association from 1912 to 1942 and was subsequently named president emeritus of that association. In 1929 he was appointed fruit industry representative on the Federal Farm Board and served for two years. In 1942 and 1943 he was president of the National Council of Farmer Co-Operatives.

Samuel Z. Weaver

Samuel Z. Weaver, president of Weaver & Hugi, Inc., New York, died March 22 at his some in Englewood, N. J. He was fifty-nine year old. Mr. Weaver had been associated with Swift & Co. and Wilson & Co. before organizing the Weaver & Hugi organization twenty years ago.

Dr. Willet F. Whitmore

Dr. Willet F. Whitmore, professor of organic chemistry at Brooklyn Polytechnic Institute, died March 19 at his home in Amityville, L. I. He was fifty-five years old.

Dr. Whitmore, who had been a member of the Brooklyn Polytechnic faculty since 1918, gave one of the first courses in chemical microscopy and did much work on the separation of anesthetic agents and the methods for microscopic detection of organic and inorganic compounds. He was a past president of the New York-New Jersey Microchemical Society.

James P. Boohecker, retired manager of the chewing gum plant of the Beech-Nut Packing Company in Brooklyn, N. Y., died recently. He was seventy-seven years old.

Dr. Henri Coutard, one of the pioneer researchers in radium and a colleague of Marie Curie in the French Radium Institute, died March 19 in Le Mans Central hospital, Le Mans, France. He was seventy-four years old.

Everett J. Edwards, former whaling captain, who was president of the East Hampton Water Company, East Hampton, L. I., died recently in that town. He was seventy-eight year old. During his career Mr. Edwards had also been captain of menhaden fishing boats.

Frederick Lauter, sr., who had been associated with the manufacturing department of the American Agricultural Chemicals Company for fifty years, died March 19 at his home in Carteret, N. J. He was eighty-one years old.

Frederick C. Lord, superindent of the National Oil Corporation, Louisville, Ky., died recently in St. Anthony's hospital in that city. He was fifty-one years old. Mr. Lord had been associated with the oil company for twenty-five years.

M. D. Moulton, vice-president of the Sunset Oil Company, Los Angeles, died recently in Garfield hospital, Monterey Park, Calif. Mr. Moulton had been associated with the oil industry in southern California for twenty-five years.

Dr. Merle Randall, emeritus professor of chemistry at the University of California, died recently in Berkeley. He was sixty-two years old. Dr. Randall joined the university staff in 1912 as a research assistant and became a professor of chemistry in 1927. He assumed emeritus status in 1944.

Robert Stern, secretary-treasurer of Louis Stern Sons, New York, died on March 16. He was seventy-four years old. Mr. Stern had been associated with the company for the past fifty years.

Charles W. Willever, sr., former assistant manager of the products division of the New York offices of the Esso Standard Oil Company, died March 19 while visiting in Catasauqua, Pa. He was sixty-four years old.

Socony-Vacuum Advances White

F. L. White has been appointed an assistant treasurer of the Socony-Vacuum Oil Company, New York. Mr. White has been associated with the company since 1934.

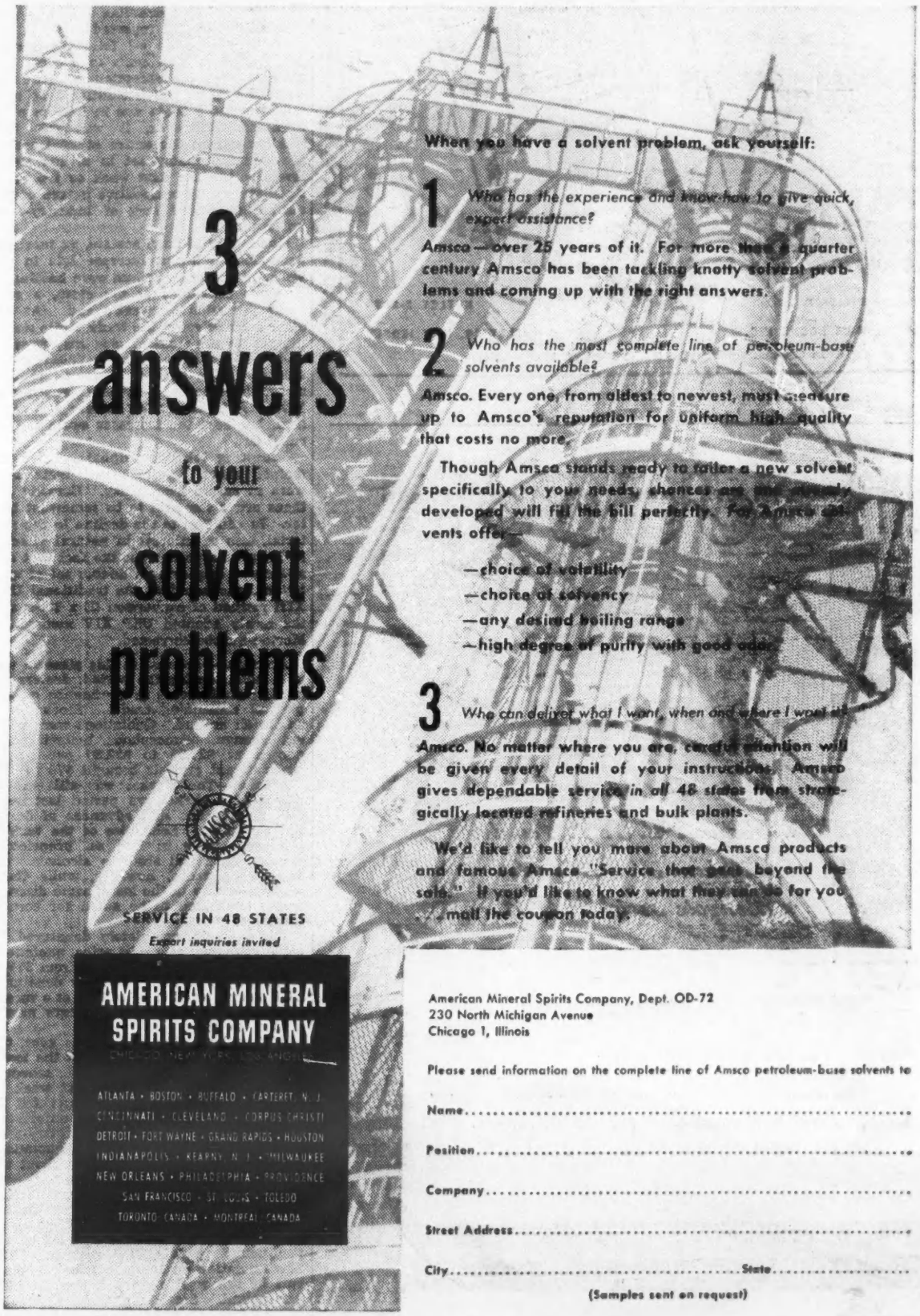
Standard Oil Development Names Luster Vice-Pres.

Standard Oil Development Company has named Eric W. Luster vice-president and member of the board of directors, to succeed Dr. Nathaniel E. Loomis, who will retire on March 31 after thirty-two years of service with affiliated of the Standard Oil Company (New Jersey). Mr. Luster joined the organization in 1916 and has been serving as manager of the Esso engineering department since last year.

Trade Briefs

Richard Bard, formerly manager of Shell Oil Company's gas-gasoline Department at Tulsa, Okla., has been made assistant manager of the crude oil department in charge of volatiles, in the company's New York office.

Joseph M. Nugent, manager of claims and insurance in the marine transportation department of the Socony-Vacuum Oil Company, New York, was honored recently by company officials and fellow-workers with a luncheon on completion of forty years of service with the company.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Drugs and Fine Chemicals

Apart from a rise in natural menthol, price movements last week were all on the down side. Lowered were aminophylline, crude fishliver oil, sulphathiazole, theophylline and natural vitamin A. Nevertheless, the index for drugs and fine chemicals scored another gain, moving up 0.2 point to a new reading of 252.7.

Aminophylline and theophylline, under pressure of increased foreign competition, each received two price cuts during the period for an overall decline of 65 cents and 50 cents per pound, respectively. Offerings from abroad played a similar role in the market for crude fishliver oil, forcing reductions of one-half cent to one cent per million units. Natural vitamin A, following along behind the drops in the primary market, was moved lower by 2 cents per million units.

Reductions in sulphathiazole amounted to 50 cents per pound across the board, crystals, microcrystals, powder and USP sulphathiazole-sodium all receiving cuts. The lone advance during the week, a 5-cent rise in natural menthol, was occasioned by a further, though temporary, narrowing of spot Brazilian stocks.

Alcohol was still reported to be in the process of leveling off following recent spot increases of 5 cents to 6 cents per gallon. With the exception of some denatured grades, which continued at split quotations, the trade was in line on most formulas. However, it was felt that stabilization on the entire ethanol schedule would probably set in at the lower levels within the next week or ten days, since the highly-competitive nature of the market precluded lack of industry-wide uniformity.

One maker of amyl acetate, ex fusel oil, announced a 3-cent increase late in the week. Since other sellers were holding to previous schedules at the close, a split price prevailed at week's end. As for other ester solvents, the trade, while standing pat for the moment, was busy figuring costs on the basis of new higher-priced ethanol and a general advance in these materials remained very much of a possibility. Butanol and its acetate also were firm, but here too increases could not be ruled out.

Excepting lobeline sulphate, which remained short, alkaloids and their salts were in ample availability. Demand for these drugs was said to be somewhat better. In addition to the decline in the material, also of interest in natural vitamin A during the period was the fact that one seller was employing a double set of quotations, one based on the traditional USP XIII method of conversion (E x 1894) and the newly adopted USP XIV method, or Morton-Stubbs corrected.

Aconitine—Interest in this alkaloid was up a notch during the period, dealers reporting an increase in confidence on the part of consuming trades. Stocks were ample all around. Quotations were without change. Amorphous material was quoted at $27.50 to $32.50 per ounce, while potent crystals brought $78 to $85.

Alcohol—The market was still in the throes of a shakedown period last week following recent spot advances of 5c. to 6c. per gallon. Schedules of the various producers were in line on proprietary solvent, pure and absolute alcohols. On denatured grades, however, while there was uniformity in the main, some discrepancies continued to be noted for certain formulas.

For example, completely denatured alcohol remained at a split price, quotations on tankcar quantities ranging from 37½c. to 38½c. per gallon. Specially denatured 23H was reported to be selling at a spread of ½c. per gallon, with tankcars named at 38c. to 38½c.

With competition as keen as ever, the trade looked for stabilization at the lower levels on the entire ethanol schedule soon, probably within the next week or ten days. Furthermore, it was felt in some quarters that, barring unforeseen developments, when the industry-wide pattern finally jelled, alcohol quotations would probably hold firm throughout the second quarter.

Aminophylline — Stepped-up foreign competition forced two declines in domestically-produced material last week and resulted in an overall price cut of 65c. per pound in this USP material. The new quotation on 100-pound lots, as a result of the week's price action, is $5.35 per pound. Smaller quantities, in line with the customary differential, bring 15c. more.

Ammonium Thiosulphate—Demand was normal last week. Stocks were ample. The price held firm, crystalline material in jars commanding 32c. per pound, f.o.b. works.

Atropine and Salt—Some pickup in demand was noted during the period. Stocks were regarded as plentiful all around. Prices were steady following last month's declines. The alkaloid was quoted at $10.50 to $11.50 per ounce, while the sulphate brought $6.75 to $7.25 per ounce

Butyl Alcohol—Producers were keeping close watch on the developing ethanol situation last week. Most sellers, while stating that no action was being taken at present, were, nevertheless, of the opinion that advances for butanol and its acetate were a very distinct possibility within the near future. Meanwhile, stocks continued good. Demand was normal.

Capryl Alcohol—Movement was described as fair during the past seven-day period. Supplies were at former levels, continuing excellent. Listings remained stable. Tankcar quantities were quoted at 25c. per pound.

Castor Oil—Beans were $5 higher in some quarters last week, prices ranging from $125 to $130 per long ton. USP oil, meanwhile, continued at previous price levels.

Arrivals of beans last week totaled 53,585 bags, equivalent to 8,037,750 pounds, compared with 5,156 bags, or 773,400 pounds during the previous week, and imports of 77,107 bags, equal to 11,566,050 pounds, during the corresponding period of 1949.

Importations of beans since January 1, 1950, total 391,863 bags, or 58,779,450 pounds, as opposed to arrivals of 648,016 bags, equivalent to 97,202,400 pounds, during the corresponding period of 1949.

Cetyl Alcohol—Demand last week was reported at a normal pace. Stocks were ample in the face of current consumer requirements. Prices were steady, listings on domestic CP material continuing at $1.50 to $1.55 per pound.

Cocoa Butter—Prices wavered a little during midweek, but firmed up toward the close for no change during the period. Quotations were at 43c. to 45c. per pound.

Digitoxin—Call was reported somewhat improved during the period. The supply position remained unchanged, offerings continuing readily available. The price structure was similarly without variance, listings on this USP material holding at $9.60 to $10 per gram.

Eserine and Salts—Demand was reported up slightly for this alkaloid and its salts during the period. There was no difficulty about supply, offerings continuing in ample availability. Quotations were steady all around. The alkaloid was quoted at $45 to $50 per ounce. The salicylate brought $36 to $40, while the sulphate commanded $35 to $36 per ounce.

Ester Solvents—One producer last week announced an advance of 3c. per pound on amyl acetate, ex fusel oil. Since other sellers were holding at the old price at press time, tankcars were quoted at a range of 15c. to 18c. at the close. Similar action was expected momentarily in other quarters. As for other ester solvents, the trade, while standing pat for the moment, was busy figuring costs on the basis of new higher-priced ethanol, and a general rise within this section remained very much within the realm of possibility.

Ethyl Iodide—Quotations were firm last week. The material in bottles was named at $3.50 to $4.27 per pound, while carboy prices ranged from $2.60 to $2.85. Both are works listings.

Fishliver Oil—The continued influx of low-priced foreign oil forced declines of ½c. to 1c. per million units in crude last week. Competition from abroad was said to be so keen, in fact, that many domestic

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Menthol, natural, 5c. per lb.

Prices Reduced

Aminophylline, USP, 65c. per lb.
Oil, fishliver, crude, ½c. to 1c. per million units.
Sulphathiazole, USP, crystals, 50c. per lb.
micro crystals, 50c. per lb.
powder, 50c. per lb.
Sulphathiazole-sodium, USP, 50c. per lb.
Theophylline, USP, 50c. per lb.
Vitamin A, natural, 2c. per million units.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
252.7	252.5	252.4	254.4	256.7

(For Current Prices see Page 9)

producers were reported to have withdrawn from the field, at least temporarily. Despite these reverses in crude, both prime and concentrates held firm. Following are current crude oil quotations:—6,000 to 12,000 A units, 10c. to 11c.; 15,000 to 20,000 A units, 11c. to 12c.; 25,000 to 35,000 A units, 12½c. to 13½c., and 40,000 to 55,000 A units, 14c. to 16c. per million units. Prices quoted here are, of course, dependent upon the conversion factor employed.

Fusel Oil—Although amyl acetate was upped 3c. by one maker during the week, the price of refined oil held fast, tankcars going for 20c. per pound, delivered. However, because of the shortage of material and the recent boost in ethanol schedules, the trade believed that industry-wide advances were only a matter of time.

Gelatin—Demand continued weak during the period. Supply was reported ample. Prices held firm. The Bureau of Census reported total gelatin production in January at 2,986,165 pounds, which compares with 2,710,478 pounds in December and 3,009,111 pounds in November. January shipments amounted to 2,855,718 pounds, as opposed to 2,067,511 pounds during the preceding month and 2,398,816 pounds in November. Stocks at the close of January aggregated 6,410,463 pounds, against the 6,280,016 pounds on hand on December 31 and the 5,637,049 pounds held on November 30.

Hesperidin Methylchalcone — Demand has risen sharply during the past few months. However, increased production has enabled suppliers to keep pace with this active consumer inquiry. Movement last week was described as good, but sellers indicated that they were still in a position to offer reasonable quantities for prompt shipment to new customers. The material is quoted at $50 per pound, f.o.b. works.

Homatropine Salts—Prices were steady during the period. The hydrobromide was quoted at $15 to $16 per ounce. The hydrochloride brought $20 to $22 per ounce, and the methylbromide was named at $13 to $16.25. Consumer interest was said to be a little improved. Stocks were in excellent shape.

Hydrastine and Salts—Apart from a mild rise in inquiry, there was no change in the market picture last week. Supplies remained good. Prices were steady all around. The alkaloid was quoted at $53.50 to $53.80 per ounce, as was the sulphate salt. The hydrochloride remained at $29.50 to $36.

Hyoscyamine and Salts—Stocks were plentiful last week. Demand was up slightly. Listings were firm, holding at $15.75 to $16 per ounce for the alkaloid, at $16.50 to $18 for the hydrobromide and at $13.50 to $14 for the sulphate.

Iodine—Demand was reported fair during the period. Stocks were said to be adequate in the face of current trade requirements. Crude prices continued firm at a range of $1.52 to $1.729 per pound, the spread representing the difference between domestic and Chilean material.

Lanolin—Demand was said to be picking up last week, though the volume of business was still only moderate in the main. Stocks were ample. Prices were steady. The anhydrous cosmetic grade was quoted at 30c. to 32c. per pound, while anhydrous pharmaceutical brought 28c. to 31c. Hydrous material was at 27c. to 29c. per pound.

Lobeline Sulphate—The continued scarcity of lobelia herb kept this alkaloid salt in a narrow supply position last week. Shortage of the herb, of course, goes back to the last gathering season when collections were seriously hampered by severe damaging rains. Prices held steady at $34 to $38 per ounce, although in view of the dearth of offerings they were largely nominal.

Menthol—Further narrowing of spot Brazilian stocks brought another 5c. ad-

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vance in the market for natural material last week. Chinese, though in adequate supply, also moved higher. Demand remained on the lackluster side. Quotations on natural ranged from $10.15 to $10.30 per pound.

Methanol—Material continued to move in fairly good volume during the period. Stocks were ample. Prices held at previous levels. The zone 2 situation, where a 1½c. spread existed on carload and tank-car quantities, remained unchanged. Imports of methanol into Canada by manufacturers for use exclusively in the production of formaldehyde in their own factories have been granted duty-free entry from all sources from the period January 1, 1950, to June 30, 1951. Previously, methanol had been dutiable at 20c. per proof gallon.

Methyl Iodide—The price structure was unchanged last week. Quotations of the material in bottles ranged from $3.65 to $4.78 per pound, while carboy listings were at $2.80 to $3. Both are works prices.

Milk Powder—Prices were steady during the period. Demand was slow for the most part. Stocks were regarded as ample. CCC purchases during the period March 10-16, inclusive, totaled 4,776,640 pounds of spray process skimmed milk powder at 12½c. and 2,109,957 pounds of roller process at 10½c. per pound. Government purchases of nonfat dry milk this year to date amount to 67,720,767 pounds, compared with 35,630,353 pounds bought during the corresponding period in 1949.

Phosphoric Acid—Prices on the 85 percent NF grade held fast during the week at 10½c. per pound for carload lots. Stocks were regarded as ample. Demand was normal.

Sebacic Acid—Demand was good during the period. Stocks remained on a par with previous levels, offerings continuing plentiful. Quotations on the purified material held firm at 47c. to 53c. per pound.

Sodium Lactate—Listings were without variance during the period. Edible 50 percent was quoted at 19c. per pound. Edible 60 percent was named at 24c., while the technical 50 percent material ranged from 13c. to 14c. per pound. All grades are available in drums and carboys, quotations being based on an f.o.b. works basis.

Sulphathiazole—Prices on USP grades were lowered 50c. per pound across the board last week. According to the new schedule, free-flowing crystals are quoted at $3.50 to $4 per pound. Micro crystals command $3.25 to $3.55. Powder brings $3 to $3.30 per pound, as does USP sulphathiazole sodium. All price ranges reported above represent standard quantity differentials.

Theophylline—Lower-priced offerings from abroad produced two price cuts in domestic material during the week for an overall decline of 50c. per pound. The 100-pound quotation on this USP product is, therefore, currently quoted at $5.50 per pound. Smaller quantities, of course, take the customary 15c. differential.

Vitamin A—Reflecting declines in the primary market, prices on natural last week were downed 2c. per million units. Demand was said to be brisk, particularly from manufacturers of oleomargarine and the feed trade. Also of interest during the period was the fact that at least one producer was quoting vitamin A on a dual basis, the traditional USP XIII method of conversion (E x 1894) and the newly-adopted USP XIV method, or Morton-Stubbs corrected. Typical of this double set of quotations are the listings for 200,000 to 350,000 potency. Prices based on the USP XIII method of conversion call for 18c. per million units for lots of 500 million units or more and 22c. for lots of less than 500 million units. Prices for the same potency based on the USP XIV method call for 21½c. and 24½c. per million units, respectively. For the balance of the natural vitamin A schedule, see Current Market Quotations section, which begins on page 9.

Smith Retires from USPHS

Dr. Maurice I. Smith, chief pharmacologist of the Public Health Service, Federal Security Agency, has retired after thirty years of research work at the National Institutes of Health and its predecessor, the Hygienic Laboratory.

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S.K.&F. Names Huey New Personnel Director

Smith, Kline & French Laboratories, Philadelphia, has appointed George O. Huey personnel director; has named Gordon T. Way administrative department head of its research division, and has appointed William Steytler jr. employment manager.

In addition, the company has appointed the Stewart A. Jellett Company, Philadelphia, and the firm of Edwards & Green, Camden, N. J., to plan an addition to its pharmaceutical plant in Philadelphia.

Ayerst, McKenna & Harrison Adds Scanlan to Research Div.

Ayerst, McKenna & Harrison, Ltd., division of American Home Products Corporation, New York, has appointed Dr. John S. Scanlan to the staff of its medical and research division. For the past year Dr. Scanlan has been director of the consulting bureau service of the W. F. Prior Company, Hagerstown, Md.

Boyle-Midway Shifts Staff

Boyle-Midway, Inc., New York, has reported a series of changes in its sales staff. Lewis Seymour has been appointed manager of a newly-created New York state sales division, with headquarters in Albany. Albert C. Arnhold has been named manager of the St. Louis sales division and Joseph F. Baker has been appointed head of the Florida sales division.

Carl Dennison will head a newly organized midwestern sales division, with headquarters in Denver, Colo.

Davis & Geck Appoints Blankenship Sales Mgr.

Davis & Geck, Inc., surgical suture manufacturing subsidiary of the American Cyanamid Company, New York, has appointed W. M. Blankenship sales manager and A. J. Weisbrodt advertising manager. In addition, H. M. Clark has been named director of sales service, and C. T. Riall has been appointed assistant sales manager. J. C. Stuart will continue as assistant sales manager and F. M. Rhatigan continues as sales promotion manager.

Mr. Blankenship was formerly manager of the chemical sales division of Bristol Laboratories, Inc., and had previously served as assistant sales manager for the S. E. Massengill Company and as divisional supervisor for Mathieson Alkali works. Mr. Weisbrodt recently resigned as advertising manager of Burroughs Wellcome & Co., and had formerly served as advertising manager of the pharmaceutical division of Sandoz Chemical Works.

Wuest Resigns as Director Of Warner Research Institute

Dr. H. M. Wuest, director of research of the Warner Institute for Therapeutic Research, has resigned for reasons of ill health, but will continue as vice-president and director of William R. Warner & Co. Dr. U. V. Solmssen has been appointed administrative director of the Warner Institute, while continuing as assistant director of research. Dr. S. Krop has been named director of pharmacology and chemotherapy of the institute, to succeed Dr. N. Ercoli, who has resigned to assume the directorship of the Institute Sieroterapico Milanese Scrafino Belfanti, Milano, Italy.

Trade Briefs

Abbott Laboratories, North Chicago, Ill., has added Dr. Robert H. Hollis to the staff of the veterinary division of its sales department.

Boyle-Midway, Inc., has appointed W. L. Fountain, jr., division manager of its newly created Savannah-Wilmington division.

Michael F. Charley, president of the Standard Pharmacal Company, will head the equipment and supplies section of the Illinois division of the American Cancer Society's 1950 fund drive.

W. E. Simler, formerly a sales executive of the Crowell-Collier publishing company, and recently advertising director of Promenade Magazines, Inc., has joined Victor van der Linde Company.

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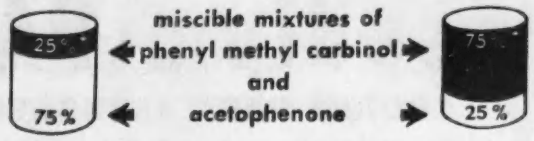

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Cincinnati Drug Club Plans Apr. 28 Meeting

The Cincinnati Drug and Chemical Association will meet at the Alms hotel, Cincinnati, on April 28. The featured speaker will be Kenneth S. Watson, assistant director of the Ohio River Sanitation Commission, who will discuss various aspects of the purification of water, antipollution along the Ohio River, and the industrial progress of the Ohio River Valley.

Kenton Elected Head of N.Y. Armed Forces Chemical Ass'n

The New York chapter of the Armed Forces Chemical Association has elected Edwin C. Kenton, Evans Research & Development Corporation, president. Leslie Sutherland, Barrett Division, Allied Chemical & Dye Corporation, has been named vice-president, and Walter Spicer, Lambert Pharmacal Company, has been elected secretary.

German Research Data Offered

A new research bulletin listing seventy-five patent applications and manufacturing processes of German manufacturers in the pharmaceutical field has just been issued by Research Information Service, New York publisher, who is now receiving and publishing information concerning current developments in German chemical research.

The major portion of research bulletin No. 43, entitled "Pharmaceuticals," is made up of listings and abstracts of patent applications filed by the industrial firms of I. G. Farbenindustrie, Schering, E. Merck, C. F. Boehringer & Soehne, Byk-Guldenwerke and Chemische Fabrik von Heyden, etc., as well as by a number of independent scientists. The last section of the bulletin gives a compilation of E. Merck manufacturing processes of recent date.

Free copies of a catalog of scientific information can be obtained by writing to the firm at 509 Fifth avenue, New York 17.

Stein, Hall Elects Directors

Stein, Hall & Co., New York, elected William W. Strasser, jr., and Leslie A. Jacobson to its board of directors at the recent annual meeting of stockholders. All other directors of the company were reelected.

Plaut Heads Cancer Drive Div.

Edward Plaut, president of Lehn & Fink Products Corporation, has been appointed chairman of the drugs division of the New York City cancer crusade for 1950. Edward E. O'Neill, president of the American-La France-Foamite Corporation, has been named chairman of the chemicals division, and Elliott S. Phillips, president of Devoe & Raynolds Company, is chairman of the paints division.

Pennsalt Appoints LaCasse

Harold J. LaCasse has joined Pennsylvania Salt Manufacturing Company's special chemicals department as field sales service representative in the Indiana territory. Mr. LaCasse takes over the territory relinquished by John C. Hampson when he recently becames sales manager of the department's newly-formed Chicago district.

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Buffalo Rubber Group Plans April 4 Meeting

The Buffalo Rubber Group will meet at the Elks Club, Buffalo, N. Y., on March 18. The technical session speaker will be Ernst R. Bridgwater, E. I. du Pont de Nemours & Co., who will discuss "Synthetic Rubber Looks Into the Future," and the after-dinner speaker will be Harry G. Maynor, special agent of the Federal Bureau of Investigation, who will speak on the "Services of the FBI."

The group has also announced that its annual international meeting, sponsored in conjunction with the Ontario Rubber Group, will be held at the General Brock hotel, Niagara Falls, Ontario, Canada, on May 19. The featured speaker will be Dr. Harlan Turnbull, B. F. Goodrich Company, who will discuss "The Very Ability of Rubber Chemist."

Kilgore, Atlantic Research Merge Research Facilities

Kilgore Chemicals, Inc., and the Atlantic Research Corporation, both Washington, D. C., have merged their research, engineering and marketing facilities. The move calls for the establishment, within the structure of the Atlantic Research Corporation, of a Kilgore Chemicals Division, headed by Anthony Hass, former general manager of the Kilgore company. The activities of the new division will be directed toward expanded development, manufacture, and sale of specialty chemicals in the insecticide, fungicide and industrial deodorant fields.

Antihistamines Makers

—*Continued from page 3*

and effectiveness despite any legalistic allegation of the commission to the contrary."

The company statement then quoted recent testimony before the house appropriations committee by Dr. Paul Dunbar, Food and Drug Administrator. Dr. Dunbar said in part:

"We received new-drug applications for these so-called antihistamine cold remedies. We satisfied ourselves, not only from the reports of the manufacturers, but also by contacts with competent medical men who have employed these drugs for a material length of time, that they would be safe if they were not taken in excess of the dosages recommended on the labels."

Bristol-Myers and Anahist are allowed twenty days from March 21, and Whitehall twenty days from March 24, to file answers to the charges.

The New York State Senate approved on March 22 a proposal prohibiting the sale of antihistamine cold pills without a physician's prescription. It is now under consideration by the Assembly.

Chemical Output

—*Continued from page 3*

a modest capital outlay is necessary, it was noted.

The division said that many chemical plants are located primarily because of access to raw materials and this influences the degree of concentration. In general, the availability-of-materials factor seems to be effective in promoting concentration of output in groups with medium and low-cost plant facilities. Such lines as botanical products, inorganic color pigments, hard and softwood distillation, and natural tanning and dyeing materials are especially dependent upon availability of raw materials.

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ANILIN COLORS — 55 cyls, Sandoz Chemical Works, Conte Biancamino, Genoa
10 dms, Ciba Co, American Defender, Rotterdam
8 dms, General Dyestuffs Corp, American Defender, Rotterdam

ANISE—50 bgs, Charles T Wilson Co, Agwimonte, Vera Cruz
300 bls, William E Martin Co, Pioneer Mail, Hong Kong

ANNATTO SEED — 50 bgs, Cape Cumberland, Kingston
56 bgs, D Steengrafe Co, Cape Cumberland, Kingston
73 bgs, Marcel Calvet, Cape Cumberland, Kingston
200 bgs, Bank of Nova Scotia, Cape Cumberland, Kingston
100 bgs, D Steengrafe Co, Puerto Rico, Ciudad Trujillo

ANTIMONY REGULUS—14 cks, Caswell Strauss Co, American Ranger, Hamburg

ARSENIC, WHITE—179 bbls, American Smelting & Refining Co, Agwimonte, Tampico

ASBESTOS FIBER—3,000 bgs, Johns-Manville Co, African Endeavor, Capetown
300 bgs, African Rainbow, Beira

BABASSU KERNELS—4,500 bgs, General Foods Corp, Jutahy, Sao Luiz Do Maranhao

BARIUM SULPHATE—22 kgs, F W Berk & Co, Fort Cadotte, London

BASIL LEAVES—13 bls, Pierre De Saurel, Marseilles

BEEF GLANDS—10 cks, National City Bank, Mormacyork, Montevideo

BEESWAX—100 bgs, Lenape Trading Co, Mormacyork, Rio de Janeiro
22 bgs, Davies Irwin Co, Mormacyork, Rio De Janeiro
67 bgs, National City Bank, Herdis, Rotterdam
32 bgs, D Steengrafe Co, Cape Cumberland, Santiago
34 bgs, Ocean Commercial Co, Puerto Rico, Ciudad Trujillo
46 blocks, Richard D Heins, Excelsior, Aden
31 bls, Hamilton & Co, Erik Banck, Progresso, Mexico
144 bgs, W R Grace & Co, Santa Rita, Talcahuano

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18 bdls, Karl H Landes, Inc, President Van Buren, Singapore

BENZOL—1 cs, Oil & Chemical Products Inc, Batory, Gdynia

BERGAMOT OIL—100 qtr cs, National City Bank, Exton, Messina

BERYLLIUM ORE—1,500 bgs, Metal Traders Inc, Jutahy, Fortaleza
868 bgs, F H Lenway Co, Brooklyn Heights, Yokohama
24 tons, Watson Geach Co, African Rainbow, Beira
392 bgs, Derby & Co, Robin Doncaster, Cape Town

BITTER BARK—2 bls, Cape Cumberland, Kingston

BLACK SAND—63 bgs, Alfred Brown, President Van Buren, Alexandria

BOIS DE ROSE OIL—1 cs, Biddle Sawyer Corp, Mormacmar, Rio de Janeiro

BONES—1,905 bgs, Armour & Co, Mormacmar, Montevideo
4 bgs, Tupman Thurlow Co, Sussex Trader, Buenos Aires
41 bgs, International Packers Commercial Co, Mormacyork, Buenos Aires

FLOUR—3,360 bgs, J Lang Co, Ankrundyk, Antwerp

MEAL—121 bgs, European Chemical Co, Stavangerfjord, Stavanger
2,205 bgs, Transatlantic Animal By-Products Corp, American Press, Havre
4,410 bgs, Woodward & Dickerson Co, Golden City, Rotterdam
2,204 bgs, Copeland Inc, Leerdam, Antwerp
1,015 bgs, Consolidated Chemical Industries, Mormacyork, Buenos Aires

CADMIUM, METALLIC—60 cs, American Union Transport Co, Lexa Maersk, Kobe
121 cs, Chase National Bank, Lexa Maersk, Yokohama

CALCIUM CARBONATE—51,000 lbs, H J Baker & Bros Co, Bristol City, Avonmouth

CAMPHOR OIL—48 dms, Ungerer & Co, Pioneer Mail, Keelung
34 dms, Norda Essential Oil & Chemical Co, Pioneer Mail, Keelung

REFINED—200 cs, Irving Trust Co, Pioneer Mail, Keelung
25 cs, American Express Co, Pioneer Mail, Keelung

CANARYSEED—227 bgs, Louis Furth, Inc, Helenic Wave, Istanbul

CAPSICUM, DRIED—266 bgs, Societe Generale, African Grove, Lagos
120 bgs, Berwick Co, African Grove, Lagos
55 bgs, Becker Mayer Seed Co, Ferngulf, Lagos

CARAWAY SEED—100 bgs, Levy & Lewis Co, Herdis, Rotterdam
200 bgs, Louis Furth Inc, Mormacpenn, Copenhagen
100 bgs, Catz American Seed Corp, Leerdam, Rotterdam
60 bgs, Becker Mayer Seed Co, Uruguay, Copenhagen
100 bgs, Louis Furth, Inc, Uruguay, Copenhagen
190 bgs, Becker Mayer Seed Co, Uruguay, Copenhagen

CARDAMOM—11 cs, William E Martin Co, Excelsior, Colombo
19 cs, William E Martin Co, President Van Buren, Colombo

CARNAUBA WAX—126 bgs, Strohmeyer & Arpe Co, Jutahy, Parnahyba
125 bgs, William Viel Co, Jutahy, Parnahyba
125 bgs, Marine Midland Trust Co, Jutahy, Parnahyba
100 bgs, Public Natoinal Bank, Jutahy, Parnahyba
63 bgs, Wessel, Duval & Co, Jutahy, Parnahyba
63 bgs, National City Bank, Jutahy, Parnahyba
125 bgs, Strahl & Pitsch, Inc, Jutahy, Parnahyba
376 bgs, W R Grace & Co, Jutahy, Parnahyba
376 bgs, Chase National Bank, Jutahy, Parnahyba
1,841 bgs, Jutahy, Parnahyba
63 bgs, First National Bank Boston, Jutahy, Parnahyba
56 bgs, Bank of London & S A, Jutahy, Fortaleza
167 bgs, Royal Bank of Canada, Jutahy, Fortaleza
279 bgs, Cornelius Products Co, Jutahy, Fortaleza
279 bgs, Strohmeyer & Arpe Co, Jutahy, Fortaleza
278 bgs, William Diehl & Co, Jutahy, Fortaleza
129 bgs, Wessel, Duval & Co, Jutahy, Fortaleza
114 bgs, Jutahy, Fortaleza
223 bgs, Frank B Ross Co, Jutahy, Fortaleza
156 bgs, W R Grace & Co, Jutahy, Fortaleza

CARNAUBA WAX—56 bgs, Frank B Ross Co, Jutahy, Fortaleza
56 bgs, William Diehl & Co, Jutahy, Fortaleza
33 bgs, Innis, Speiden & Co, Jutahy, Fortaleza
56 bgs, Public National Bank & Trust Co, Jutahy, Fortaleza
24 bgs, A V Berner Co, Mormacmar, Rio de Janeiro
64 bgs, Natural Products Corp, Mormacmar, Rio de Janeiro
69 bgs, Stein, Hall & Co, Loide Uruguai, Salvador

CASEIN—1,000 bgs, Wilbur Ellis Co, Bowmonte, Buenos Aires
2,000 bgs, Borden Co, Bowmonte, Buenos Aires

CASSIA—50 bls, Sembodja Corp, Lexa Maersk, Hong Kong
100 bls, Becker-Mayer Seed Co, Lexa Maersk, Hong Kong
50 pkgs, Internatio Rotterdam, Inc, Polyclorus, Tandjong Priok
700 bls, C M Van Sillevoldt Co, Pioneer Mail, Hong Kong
284 bls, Karl H Landes, Inc, Pioneer Mail, Hong Kong
91 bls, Little & Christman Co, President Van Buren, Djakarta

CASTORBEANS—6,772 bgs, Spencer Kellogg & Sons Co, Loide Uruguai, Salvador
15,269 bgs, Baker Castor Oil Co, Loide Uruguai, Salvador
3,400 bgs, Loide Uruguai, Salvador
3,500 bgs, Spencer Kellogg & Sons Co, Republica De Colombia, Manta
2,540 bgs, Baker Castor Oil Co, Mormacyork, Bahia
1,700 bgs, Chase National Bank, Bowmonte, Cabedello
1,700 bgs, Guaranty Trust Co, Jutahy, Recife
5,000 bgs, Baker Castor Oil Co, Jutahy, Maceio
4,719 bgs, Baker Castor Oil Co, Jutahy, Fortaleza
371 bgs, Spencer Kellogg & Sons Co, Flynderborg, Jacmel
3,479 bgs, African Grove, Lobito
5,108 bgs, Baker Castor Oil Co, Tekla, Bahia

OIL—230 tons, Jutahy, Recife
217 tons, Jutahy, Fortaleza

CELERYSEED—175 bgs, Norda Essential Oil & Chemical Co, President Van Buren, Bombay
34 bgs, Frank Tea & Spice Co, President Van Buren, Marseilles
342 bgs, Otto Gerdau Co, Excelsior, Bombay

CHEMICALS—5 cks, Intra Mar Shipping Corp, American Press, Havre
5 cs, American Roland Corp, American Press, Havre
50 bbls, E M Sergeant Pulp & Chemical Co, Leerdam, Rotterdam
200 dms, Industrial Sales Corp, Leerdam, Antwerp

CHILLIES—36 bgs, Murwal, Inc, African Grove, Lagos
66 bgs, Becker-Mayer Seed Co, African Grove, Lagos
99 bgs, Public National Bank, African Grove, Lagos
77 bgs, Becker-Mayer Seed Co, Ferngulf, Lagos
100 bls, L N White Co, Pioneer Mail, Kobe
50 bgs, W Berstein, Lexa Maersk, Kobe
10 bgs, Bandsihar Gopaldas, Excelsior, Bombay

CHINA CLAY—140 bgs, English China Clay Sales Corp, Bristol City, Avonmouth

CHROME ORE—2,498 tons, Vanadium Corp, African Rainbow, Beira
1,127,035 lbs, Frank Samuel Co, Robin Doncaster, Lourenco Marques

CHROMIC ACID—100 dms, Hudson Shipping Co, American Defender, Rotterdam

CINCHONA PRODUCTS—220 dms, Guaranty Trust Co, Leerdam, Rotterdam

CINNAMON BARK OIL—2 cs, Polak & Schwarz, Polyclorus, Colombo

LEAF OIL—10 dms, Chase National Bank, Robin Doncaster, Mombasa

QUILLS—100 bls, C M Van Sillevoldt Co, Excelsior, Colombo

CITRONELLA OIL—1 dm, Norda Essential Oil & Chemical Co, Lexa Maersk, Keelung
20 dms, Melanol Corp, Lexa Maersk, Keelung
81 dms, Norda Essential Oil & Chemical Co, Pioneer Mail, Keelung
13 dms, Magnus, Mabee & Reynard, Inc, Pioneer Mail, Keelung
8 dms, Norda Essential Oil & Chemical Co, Polydorus, Belawan

CLOVES—800 bls, Charles T Wilson & Co, Robin Doncaster, Zanzibar
200 bls, George Lueders & Co, Robin Doncaster, Zanzibar
200 bls, John Holt & Co, Robin Doncaster, Zanzibar
300 bls, Arthur G Dunn, Robin Doncaster, Zanzibar
600 bls, Otto Gerdau Co, Robin Doncaster, Zanzibar
300 bls, D Hecht Co, Robin Doncaster, Zanzibar
300 bls, Louis Furth, Inc, Robin Doncaster, Zanzibar
300 bls, Dodge & Olcott, Inc, Robin Doncaster, Zanzibar
250 bls, Maywood Chemical Works, Robin Doncaster, Zanzibar
400 bls, Virchand Panachand, Robin Doncaster, Zanzibar
60 bls, Lo Curto & Funk Co, Robin Doncaster, Zanzibar
32 bls, McGormley & King Co, Robin Doncaster, Zanzibar
100 bls, Stern, Morgenthau Co, Robin Doncaster, Zanzibar

COCONUT OIL—1 dm, President Van Buren, Marseilles

CODLIVER OIL—100 dms, Eelsingh & Lugtigheid Co, Stavangerfjord, Stavanger
20 dms, Arista Oil Products Co, Stavangerfjord, Stavanger
25 cks, Bowring & Co, Fort Townshend, St Johns
32 dms, Jacques Wolf & Co, Fort Townshend, St Johns
104 dms, Whitmoyer Labs, Inc, Fort Townshend, St Johns
100 dms, Whitmoyer Labs, Inc, Fort Avalon, St Johns
170 dms, Nopco Chemical Co, Fort Avalon, St Johns
44 dms, Danca Export Import Co, Uruguay, Copenhagen

COPAL GUM—785 bskts, Internatio Rotterdam, Inc, Polydorus, Macassar
199 bskts, W H Scheel, Inc, Polydorus, Macassar
115 bskts, Acme Shellac Prod, Polydorus, Macassar
285 bskts, S Winterbourne Co, Polydorus, Macassar
101 bskts, Thurston & Braidich, Polydorus, Surabaya
143 bskts, U S Industrial Chemical Co, Polydorus, Singapore
192 bskts, Internatio Rotterdam, Inc, Irisbank, Macassar
72 bskts, Balfour, Guthrie & Co, Irisbank, Macassar
51 bgs, O G Innes Corp, Lexa Maersk, Manila

CORIANDERSEED—250 bgs, Traders Commercial Co, American Defender, Rotterdam

CORUNDUM ORE—1,517 bgs, Charles Tennant Sons Co, African Endeavour, Lourenco Marques

CRESYLIC ACID—100 dms, American Cyanamid Co, Fort Cadotte, London
100 dms, Schenectady Varnish Co, American Veteran, Manchester
150 dms, American Veteran, Glasgow

CUTTLEFISH BONE—100 cs, American Cuttlefish Bone & Crucible Co, Excelsior, Sfax

DAMMAR GUM—192 bgs, U S Industrial Chemicals, Inc, President Van Buren, Singapore
64 bgs, Thurston & Braidich, President Van Buren, Singapore

DANDELION ROOT—29 bgs, S B Penick & Co, Uruguay, Copenhagen

DEXTRIN—80 bgs, Herdis, Rotterdam

DICALCIUM BONE PHOSPHATE—1,219 bgs, Bristol City, Swansea

DILLSEED—200 bgs, Meer Corp, Excelsior, Bombay
140 bgs, Levy & Lewis Co, Excelsior, Bombay
100 bgs, Meer Corp, Excelsior, Bombay

DRUGS, CRUDE—6 bgs, S B Penick & Co, Batory, Gdynia

DYESTUFFS—8 dms, Ciba Co, American Defender, Rotterdam
1 dm, Rutherford Dye & Chemical Co, Herdis, Antwerp

EARTH COLOR—1,210 bgs, C J Osborn, Bristol City, Avonmouth
1,120 bgs, Smith Chemical & Color Co, Bristol City, Avonmouth

EPHEDRINE HYDROCHLORIDE—6 cks, Herdis, Antwerp

ESSENTIAL OILS—20 dms, Dodge & Olcott, Inc, Lexa Maersk, Hong Kong
10 dms, Fritzsche Bros Co, Lexa Maersk, Hong Kong
5 dms, George Lueders Co, Lexa Maersk, Hong Kong
5 dms, George Uhe & Co, Noordam, Rotterdam
6 dms, LoCurto & Funk Co, Noordam, Rotterdam
2 dms, Bunge Corp, President Van Buren, Marseilles

EUCALYPTUS OIL—25 dms, Exton, Malaga

FENNELSEED—91 bgs, M J Golombeck Co, President Van Buren, Marseilles

FENNUGREEK SEED — 500 bgs, Manufacturers Trust Co, Pierre De Saurel, Tunis

FERRO MOLYBDENUM—1,004 cs, S W Hampton, Jr, & Co, Brooklyn Heights, Yokohama
170 cs, Philipp Bros, Brooklyn Heights, Kobe

TUNGSTEN—400 cs, Philipp Bros Co, Brooklyn Heights, Kobe
80 dms, Philipp Bros Co, Brooklyn Heights, Kobe

FERTILIZER—400 bgs, Doggett-Pheil Co, Fort Cadotte, London

FISHLIVER OIL—12 dms, R S Reade Co, Pioneer Mail, Yokohama
15 dms, Collett Week Nibecker Co, Lexa Maersk, Keelung
100 dms, Wilbur, Ellis Co, African Rainbow, Capetown
4 dms, Stern Morgenthau Co, Robin Doncaster, Capetown

FLEASEED—195 bgs, T M Duche & Sons, Co, President Van Buren, Bombay
925 bgs, T M Duche & Sons, Co, Excelsior, Bombay
465 bgs, S B Penick & Co, Excelsior, Bombay
232 bgs, Parke, Davis Co, Excelsior, Bombay

FUEL OIL—101,483 bbls, Paragon Oil Co, Thallepus, Punta
100,838 bbls, Paragon Oil Co, Mermaid, Curacao
103,000 bbls, Esso Standard Oil Co, Esso Raleigh, Aruba
167,000 bbls, Esso Standard Oil Co, Esso Suez, Aruba
102,691 bbls, New England Petroleum Corp, Pinnacle, Curacao
109,500 bbls, Esso Standard Oil Co, Esso Pittsburgh, Aruba
103,000 bbls, Esso Standard Oil Co, Esso Chattanooga, Aruba
104,000 bbls, Esso Standard Oil Co, New Echota, Aruba
17,000 bbls, Esso Standard Oil Co, Clarkes Wharf, Aruba
33,000 bbls, Esso Standard Oil Co, Clarkes Wharf, Aruba
9,000 bbls, Wyatt, Inc, Clarkes Wharf, Aruba
163,000 bbls, Esso Standard Oil Co, Esso Bethlehem, Aruba
77,305 bbls, Asiatic Petroleum Corp, Belinda, Curacao
167,000 bbls, Esso Standard Oil Co, Esso Bermuda, Aruba
115,236 bbls, Esso Standard Oil Co, Esso Little Rock, Caripito
94,000 bbls, Esso Export Corp, Esso Balboa, Aruba
106,853 bbls, Esso Standard Oil Co, Josshua Tree, Amuay
191,868 bbls, Esso Export Corp, Bulkstar, Aruba
104,525 bbls, Esso Standard Oil Co, Imperial Toronto, Caripito

FULLERS EARTH—2,000 bgs, L A Salomon & Bros Co, Bristol City, Avonmouth

GALANGAL ROOT—100 bls, H J Prentiss & Co, Pioneer Mail, Hong Kong

GAS ENRICHMENT OIL—109,000 bbls, Esso Standard Oil Co, Esso Manhattan, Aruba

GELATIN—25 bls, Coignet Chemical Co, American Press, Havre
400 bgs, Transatlantic Animal By-Products Corp, Leerdam, Rotterdam

POWDER—100 bgs, T M Duche & Sons Co, Batory, Gdynia

GENTIAN ROOT—111 bgs, William E Martin Co, President Van Buren, Marseilles

GERANIUM OIL—3 cs, George Lueders Co, President Van Buren, Alexandria
2 dms, Magnus, Mabee & Reynard, Inc, American Ranger, Hamburg

GINGER, DRIED—283 bgs, Murwal Inc, African Grove, Lagos
107 bgs, Newton Jackson Co, African Grove, Lagos
742 bgs, Chemical Bank & Trust Co, African Grove, Lagos
100 bgs, Volkart Bros Co, Excelsior, Cochin
228 bgs, Cape Cumberland, Kingston
539 bgs, Cape Cumberland, Kingston
16 bgs, I C Corp, President Van Buren, Cochin

GLUE—400 bgs, Transatlantic Animal By-Products Corp, American Defender, Antwerp
300 bgs, Leerdam, Rotterdam

STOCK—88 rolls, J Gorvers Co, Svaneholm, Barranquilla

GLYCERIN—48 dms, C J Schelling Co, Uruguay, Copenhagen
110,331 lbs, International Packers Commercial Co, Bowmonte, Buenos Aires
538,716 lbs, L Pasternak Co, Bowmonte, Buenos Aires
38 dms, C J Schellings, Mormacpenn, Copenhagen

GOLD & COPPER CONCENTRATES—583 bgs, Ayrton Metal Co, African Rainbow, Beira

GRAINS OF PARADISE—9 bgs, Pierre De Saurel, Marseille

GRAPHITE—200 bgs, Charles Pettinos, Robin Doncaster, Durban
500 bgs, Charles Pettinos Co, President Van Buren, Colombo
67 dms (10 tons), Subox, Inc, Examiner, Genoa
286 bgs, J Dixon Crucible Co, Irisbank, Colombo

GYPSUM—9,974 tons, U S Gypsum Co, Gypsum Prince, Hantsport

HAKELIVER OIL—100 dms, Wilbur, Ellis Co, Robin Doncaster, Cape Town
22 dms, Frazar & Co, African Endeavour, Cape Town

HOOF & HORN MEAL—1,040 bgs, Sussex Trader, Buenos Aires

HO OIL—8 dms, Norda Essential Oil & Chemical Co, Pioneer Mail, Keelung

INCENSE GUM—50 bgs, Richard D Heins, Excelsior, Aden

IODINE, CRUDE—100 kgs, International Fertilizer & Chemical Co, Brooklyn Heights, Yokohama

IPECAC ROOT—17 bgs, S B Penick & Co, Cape Cumberland, Cristobal
22 bgs, Cullen & Reddy Co, Cape Cumberland, Barranquilla

IRISHMOSS—55 bls, J Capouya, American Press, Havre

IRON OXIDE—100 bbls, Whittaker, Clark & Daniels Co, Exton, Malaga
870 bgs, C J Osborn Co, Exton, Malaga
653 bgs, Charles B Chrystal, Exton, Malaga

KARAYA GUM—973 bgs, Jacques Wolf & Co, President Van Buren, Bombay
333 bgs, Innis, Speiden & Co, President Van Buren, Bombay
184 bgs, Block Drug Co, President Van Buren, Bombay
105 bgs, Dodwell & Co, President Van Buren, Bombay
67 bgs, Stein, Hall & Co, President Van Buren, Bombay
25 bgs, Dodwell & Co, President Van Buren, Bombay
265 bgs, James H Reed, Excelsior, Bombay

LAUREL WAX—147 bgs, E A Bromund Co, Santa Rita, Buenaventura

LEMON OIL—5 dms, Agwimonte, Vera Cruz

LEMONGRASS OIL—12 dms, Volkart Bros Co, Polydorus, Cochin
10 dms, National City Bank, Excelsior, Cochin
3 dms, Lo Curto & Funk Co, President Van Buren, Cochin

LIVERMEAL—404 bgs, Weaver & Hugi Co, Mormacmar, Montevideo
2,000 bgs, Wessel, Duval & Co, Mormacmar, Montevideo

LOCUST BEAN GUM—200 bgs, President Van Buren, Genoa
100 bgs, T M Duche & Sons Co, President Van Buren, Genoa
200 bgs, Paul A Dunkel & Co, American Judge, Rotterdam

MACE—39 cs, Catz American Co, Polydorus, Macassar
15 cs, Arthur G Dunn, Polydorus, Macassar
39 cs, Catz American Co, Polydorus, Macassar
11 cs, Joensson & Cross Co, Polydorus, Singapore

MANGROVE BARK—1,400 bgs, Barkey Importing Co, Republica De Colombia, Esmeraldas

EXTRACT—2,100 bgs, Saxe Cutch Co, Polydorus, Singapore

MEDICINAL HERBS—40 bls, J L Hopkins & Co, Akkrundyk, Antwerp

LEAVES—20 bgs, R J Prentiss & Co, Leerdam, Rotterdam

SEED—250 bgs, S B Penick & Co, American Defender, Rotterdam

MENTHOL—20 cs, Magnus, Mabee & Reynard, Inc, Pioneer Mail, Hong Kong
5 cs, Uno Shipping Co, Noordam, Rotterdam
10 cs, Arnhold & Co, Lexa Maersk, Hong Kong

MICA—28 cs, Sigbert Loeb Co, Mormacmar, Rio de Janeiro
21 cs, Ford Radio & Mica Corp, Mormacmar, Rio de Janeiro
12 cs, Cosmopolitan Trading Corp, Mormacmar, Rio de Janeiro
64 cs, Eugene Munsell Co, Mormacmar, Rio de Janeiro
15 cs, Sigbert Loeb, Mormacyork, Rio de Janeiro
15 cs, Eugene Munsell, Mormacyork, Rio de Janeiro
36 cs, Otto Gerdau Co, Mormacyork, Rio de Janeiro
631 cs, Cornelis & Suhr Co, Excelsior, Madras
127 cs, United Mineral & Chemical Corp, Excelsior, Madras
151 cs, A D Brown Co, Excelsior, Madras
11 cs, Overseas Credit Corp, Excelsior, Madras
5 cs, William Brand Co, Excelsior, Madras
11 cs, American Mica Works, Excelsior, Madras
73 cs, Asheville Schoonmaker Mica Co, Excelsior, Madras
28 cs, Colonial Trust Co, Tekla, Rio de Janeiro
135 cs, Otto Gerdau Co, Tekla, Rio de Janeiro
22 cs, Ford Radio & Mica Co, Tekla, Rio de Janeiro
10 cs, Micacraft Products Corp, Tekla, Rio de Janeiro
96 cs, Sylvania Electric Products, Tekla, Rio de Janeiro
36 cs, Western Hemisphere Raw Materials Co, Tekla, Rio de Janeiro

MILK SUGAR—8 cs, European Chemical Co, Noordam, Rotterdam

MOLASSES, BEET—6 bbls, Charles Pfizer Co, Paolina, Venice

MONTAN WAX—100 bgs, Innis, Speiden & Co, Noordam, Rotterdam

MUSTARDSEED—550 bgs, Louis Furth, Inc, American Ranger, Hamburg
392 bgs, Becker Mayer Seed Co, Fort Cadotte, London
334 bgs, Transcontinental Seed Co, Mormacpenn, Copenhagen

MYROBALANS—1,391 bgs, Barkey Import Co, Excelsior, Bombay
1,454 bgs, Hammond Carpenter Co, Excelsior, Bombay

NEATSFOOT OIL—138 cks, Limpex Inc, Bowmonte, Buenos Aires

NUTMEGS—31 bgs, Arthur G Dunn, Polydorus, Tandjong Priok
250 bgs, Internatio Rotterdam Inc, Polydorus, Tandjong Priok
136 bgs, Becker Mayer Seed Co, Polydorus, Macassar
48 bgs, Dodge & Olcott Inc, Polydorus, Singapore
29 bgs, James P Frank Co, Polydorus, Singapore
15 bgs, Lo Curto, Funk & Co, Irisbank, Macassar

NUX VOMICA—350 bgs, Marbes Trading Co, Excelsior, Madras

NAPHTHALENE—2,000 bgs, Charles Page Co, Uruguay, Copenhagen
2,500 bgs, Fallek Products Co, American Defender, Rotterdam
2,222 bgs, Allied Chemical & Dye Corp, American Defender, Rotterdam
1,060 bgs, Herdis, Antwerp
585 bgs, European Chemical Co, Golden City, Antwerp
2,500 bgs, W D Neuberg & Co, Golden City, Rotterdam

OLIVE OIL—97 dms, Sterling National Bank, Excelsior, Sfax
95 dms, Credit Suisse, Excelsior, Sfax
25 dms, Chase National Bank, Excelsior, Sfax
100 dms, Guaranty Trust Co, Excelsior, Sfax
50 dms, Corn Exchange Bank & Trust Co, Excelsior, Sfax
345 dms, Manufacturers Trust Co, Excelsior, Sfax
193 dms, Public National Bank & Trust Co, Excelsior, Sfax
554 dms, Excelsior, Sfax
100 dms, Old Monk Olive Oil Co, President Van Buren, Marseilles
25 dms, Manufacturers Trust Co, Exton, Palermo
439 dms, Central Hanover Bank & Trust Co, Pierre De Saurel, Marseilles
376 dms, Credit Suisse, Pierre De Saurel, Marseilles
50 dms, Chase National Bank, Pierre De Saurel, Marseilles

ORANGE OIL—40 cs, Cape Cumberland, Kingston

ORRIS ROOT—60 bgs, Corn Exchange Bank & Trust Co, Examiner, Leghorn
OURICURY WAX—56 bgs, S W Hanson Co, Mormacmar, Rio de Janeiro
89 bgs, Wessel, Duval & Co, Mormacyork, Bahia
134 bgs, J W Hanson & Co, Mormacyork, Bahia
86 bgs, Wessel, Duval & Co, Mormacyork, Bahia
112 bgs, Wessel, Duval & Co, Tekla, Bahia
OX GALL—6 trcs, Armour & Co, Mormacmar, Montevideo
4 trcs, Brazilian Minerals & Timber Corp, Mormacmar, Santos
2 bbls, Unifa, Inc, Mormacmar, Rio de Janeiro
2 bbls, J P Morgan Co, African Rainbow, Beira
PALMAROSA OIL—3 dms, George Lueders & Co, Excelsior, Bombay
2 pots, Uno Shipping Co, Noordam, Rotterdam
PAPAIN—74 cs, National City Bank, Robin Doncaster, Mombasa
38 chests, S B Penick & Co, Excelsior, Colombo
PAPRIKA—600 bgs, J Weinstein Co, Exton, Alicante
300 bgs, J Navarro Co, Exton, Alicante
750 bgs, A A Sayia Co, Exton, Alicante
300 bgs, M A Porazzi Co, Exton, Alicante
350 bgs, R F Downing & Co, Exton, Alicante
100 bgs, Gallagher & Ascher, Exton, Alicante
1,300 bgs, Exton, Alicante
PATCHOULI OIL—5 cs, Uno Shipping Co, Noordam, Rotterdam
4 cs, Norda Essential Oil & Chemical Co, President Van Buren, Singapore
PEATMOSS—400 bls, Halfmoon Manufacturing & Trading Co, Leerdam, Rotterdam
300 bls, C Gastmeyer, Inc, Leerdam, Rotterdam
1,625 ctns, C Gastmeyer, Inc, Noordam, Rotterdam
1,200 bls, C Gastmeyer, Inc, Noordam, Rotterdam
1,350 bls, Alfa International Corp, Claiborne, Bremen
4,375 bls, Premier Peatmoss Corp, Mormacpenn, Gdynia
PEPPER, BLACK—100 bgs, Holland Colombo Trading Co, Polydorus, Colombo
480 bgs, Volkart Bros Co, Polydorus, Cochin
80 bgs, Berwick Co, Polydorus, Cochin
80 bgs, Branston Co, Polydorus, Cochin
240 bgs, Internatio Rotterdam, Inc, Polydorus, Cochin
76 bgs, Uno Shipping Co, Claiborne, Rotterdam
84 bgs, Bankers Trust Co, President Van Buren, Singapore
125 bgs, M Golodetz Co, President Van Buren, Singapore
240 bgs, Bank of Montreal, President Van Buren, Cochin
80 bgs, Joensson & Cross Co, President Van Buren, Cochin
80 bgs, National City Bank, President Van Buren, Cochin
400 bgs, Mincing Trading Co, President Van Buren, Bombay
80 bgs, Otto Gerdau Co, President Van Buren, Bombay
80 bgs, D Hecht & Co, President Van Buren, Bombay
80 bgs, Joensson & Cross Co, President Van Buren, Bombay
80 bgs, Indoesan Corp, President Van Buren, Bombay
480 bgs, Volkart Bros Co, Excelsior, Cochin
160 bgs, Bandsidhar Gopaldas, Excelsior, Cochin
80 bgs, Superintendence Co, Excelsior, Cochin
160 bgs, Mincing Trading Corp, Excelsior, Cochin
80 bgs, M Golodetz Co, Excelsior, Cochin
160 bgs, Bank of Montreal, Excelsior, Cochin
240 bgs, Excelsior, Alleppey
907 bgs, Arthur G Dunn, Pierre De Saurel, Tangier
640 bgs, Arthur G Dunn, Hellenic Wave, Tangier
288 bgs, Arthur G Dunn, Examiner, Tangier
83 bgs, S Berlage Co, Leerdam, Rotterdam
400 bgs, Alltransport, Inc, Hellenic Wave, Iskenderun
200 bgs, Louis Furth, Inc, American Defender, Rotterdam
WHITE—70 bgs, Far Eastern Commodities Corp, President Van Buren, Singapore
50 bgs, Gripsholm, Gothenburg
PETITGRAIN OIL—37 cs, Flora Essential Oils Co, Mormacyork, Buenos Aires
82 cs, Bunge Corp, Mormacmar, Montevideo
PETROLEUM, CRUDE—135,000 bbls, Atlantic Refining Co, R C Tuttle, Puerto La Cruz
124,800 bbls, Socony Vacuum Oil Co, Arickaree, Puerto La Cruz
122,397 bbls, California Refining Co, Kettle Creek, Puerto La Cruz
120,810 bbls, Esso Standard Oil Co, Esso New Haven, Puerto La Cruz
121,831 bbls, California Refining Co, Rock Landing, Puerto La Cruz
99,607 bbls, Esso Standard Oil Co, Esso Hartford, Las Piedras
122,308 bbls, Socony Vacuum Oil Co, Cornell, Puerto La Cruz
PHARMACEUTICALS—3 cks, Sandoz Chemical Works, Conte Biancomino, Genoa
PIMENTO—100 bgs, Uno Shipping Co, American Defender, Rotterdam
100 bgs, Cape Cumberland, Kingston
LEAF OIL—2 dms, Dodge & Olcott, Inc, Cape Cumberland, Kingston
POLLOCKLIVER OIL—10 dms, Collett, Week, Nibecker, Brooklyn Heights, Yokohama
5 dms, National City Bank, Lexa Maersk, Yokohama
14 dms, Alltransport, Inc, Pioneer Mail, Yokohama
MANDRAKE ROOT—4 bgs, S B Penick & Co, Excelsior, Bombay
POPPYSEED—140 bgs, Joel Bieler Export & Import Co, Batory, Gdynia
140 bgs, Levy & Lewis Co, Batory, Gdynia
140 bgs, Louis Furth, Inc, Batory, Gdynia
145 bgs, Becker-Mayer Seed Co, Batory, Gdynia
390 bgs, A Gronowitz Co, Batory, Gdynia
POTASSIUM FERRICYANIDE—20 dms, F H Taussig Co, Claiborne, Rotterdam
POLYTHIONATE—3 cs, Skodvin, Inc, Stavangerfjord, Oslo
PYLORUS POWDER—5 bbls, Organon, Inc, Claiborne, Rotterdam
PYRETHRUM FLOWERS—13 bls, McLaughlin, Gormley & King Co, Robin Doncaster, Dar Es Salaam
280 bls, John Powell Co, Robin Doncaster, Dar Es Salaam
3,467 bgs, Watumull International, Inc, Excelsior, Bombay
QUASSIA WOOD CHIPS—17 bgs, Cape Cumberland, Kingston
QUEBRACHO EXTRACT—5,130 bgs, Imex Co, Tekla, Buenos Aires
QUICKSILVER—2,100 flasks, F W Berk & Co, Pierre De Saurel, Cadiz
ROSEMARY OIL—16 dms, Chase National Bank, Exton, Alicante
SABADILLA SEED—166 bgs, Wessel, Duval & Co, Poseidon, Curacao
283 bgs, Wessel, Duval & Co, Santa Teresa, La Guayra
SAFFRON—1 cs, Saturnia, Genoa
13 bls, Agwimonte, Vera Cruz
38 bgs, Agwimonte, Vera Cruz
SAGO FLOUR—560 bgs, Stein, Hall & Co, President Van Buren, Singapore
560 bgs, W R Grace & Co, Irisbank, Singapore
SAL AMMONIAC—61 cs, H A Gogarty & Co, Batory, Gdynia
SANDALWOOD—100 bgs, George Lueders & Co, Excelsior, Bombay
SARSAPARILLA ROOT—12 bls, Agwimonte, Tampico
SASSAFRAS OIL—10 dms, Givaudan-Delawanna
SASSAFRAS OIL—23 dms, The Guaranty Trust Co, Tekla, Itajai
23 dms, Tekla, Itajai
Inc, Pioneer Mail, Keelung
SENNA LEAVES—123 bls, R J Prentiss & Co, Excelsior, Tuticorin
43 bls, Dalton Cooper, Excelsior, Tuticorin
SEED—84 bls, Fallek Products Co, Pioneer Mail, Hong Kong
SESAMESEED—168 bgs, Archibald & Kendall Co, Pioneer Mail, Hong Kong
667 bgs, Foreign Commodity Exchange, Cape Cumberland, Cristobal
OIL—6 cs, Chong Lung Co, Pioneer Mail, Hong Kong
SCHEELITE CONCENTRATES—160 bgs, Watson Geach Co, African Rainbow, Beira
ORE—520 bgs, J W Hampton, Jr, & Co, Jutahy, Cabedello
SHARKLIVER OIL—12 dms, Albumina Supply Co, Lexa Maersk, Yokohama
SHEEP GALL—2 cks, Sussex Trader, Buenos Aires
SHELLAC—300 bgs, Reuben Import & Export Corp, President Van Buren, Genoa
86 bgs, F H Paul & Stein Bros, Leerdam, Rotterdam
SIENNA EARTH—6 cks, T H Deutz Co, Examiner, Leghorn
SNOEKLIVER OIL—44 dms, Wilbur, Ellis Co, Robin Doncaster, Cape Town
SOAP BARK—122 bls, R J Prentiss & Co, Santa Rita, Talcahuano
SODIUM ALGINATE—13 cs, Algin Corp, Stavangerfjord, Oslo
CYANIDE—20 dms, Herdis, Rotterdam
1,386 dms, Elbert & Co, Akkrundyk, Rotterdam
POLYTHIONATE—30 carboys, Skodvin Inc, Stavangerfjord, Oslo
SOY—50 dms, E Mittenberg Co, Pioneer Mail, Hong Kong
STYRAX GUM—100 cs, Dodge & Olcott, Inc, Hellenic Wave, Istanbul
100 cs, Magnus, Mabee & Reynard, Inc, Hellenic Wave, Istanbul
25 cs, Ungerer & Co, Hellenic Wave, Istanbul
TAPIOCA FLOUR—1,500 bgs, Bankers Trust Co, Jutahy, Parnahyba
500 bgs, J H Schroder Co, Jutahy, Parnahyba
7,400 bgs, Corn Products Refining Co, Flynderborg, Puerto Plata
883 bgs, Brown Bros Harriman Co, Tekla, Itajai
1,252 bgs, Tekla, Itajai
TEA WASTE—700 bgs, Charles Pfizer Co, President Van Buren, Colombo
THALLIUM SULPHATE—2 cs, Sterling Chemical & Ore Corp, Noordam, Rotterdam
THYME LEAVES—71 bgs, M J Golombeck Co, President Van Buren, Marseilles
THYMOL CRYSTALS—15 cs, Magnus, Mabee & Reynard, Inc, American Ranger, Hamburg
TONKA BEANS—8 bbls, William M Allison Co, Jutahy, Belem-Para
TURMERIC—560 bgs, Volkart Bros Co, Polydorus, Cochin
67 bgs, D Hecht & Co, President Van Buren, Cochin
TUNG OIL—70 dms, Neuss Hesslein, Mormacyork, Buenos Aires
154 dms, Sussex Trader, Buenos Aires
UREA—2,000 bgs, Internatio Rotterdam Inc, Golden City, Rotterdam
VALONIA EXTRACT—305 bgs, International Products Corp, Exton, Port Iero
VANILLA BEANS—65 cs, Zink & Triest Co, President Van Buren, Marseilles
23 cs, Thurston & Braidich Co, President Van Buren, Marseilles
45 cs, Uno Shipping Co, President Van Buren, Marseilles
21 cs, F Huber & Co, President Van Buren, Marseilles
67 cs, Otto Gerdau Co, President Van Buren, Marseilles
6 cs, P O Hoffmann Co, Robin Doncaster, Mombasa
8 cs, Thurston & Braidich, Robin Doncaster, Mombasa
91 cs, Robin Doncaster, Zanzibar
5 cs, Dodge & Olcott, Inc, Mormacpine, Stockholm
VEGETABLE WAX—160 bgs, F H Paul & Stein Bros, Santa Rita, Buenaventura
WATTLE BARK—277 bls, American Cyanamid Co, Robert Doncaster, Durban
EXTRACT—400 bgs, American Dyewood Co, African Endeavour, Durban
3,454 bgs, River Plate Import & Export Corp, African Rainbow, Durban
1,015 bgs, Olson Sales Agency, African Rainbow, Durban
1,170 bgs, American Cyanamid Co, Robin Doncaster, Durban
WHITING—1,600 bgs, Sterling Drug Co, Fort Cadotte, London
2,221 bgs, Pleuss Stauffer North American Inc, Herdis, Antwerp
WOOL GREASE—6 bbls, Cobar Textiles Inc, Claiborne, Bremen
100 dms, Hummel Chemical Inc, Herdis, Antwerp

Baltimore

BONEFLOUR—2,205 bgs, Transatlantic Animal By-Products Corp, Leerdam, Rotterdam
CANARYSEED—236 bgs, William G Scarlett Co, Hellenic Wave, Istanbul
CHROMITE ORE—13,441,750 lbs, Leonard J Buck, Inc, Robin Doncaster, Lourenco Marques
MANGANESE ORE—4,800 tons, Carnegie Illinois Steel Corp, African Endeavour, Durban
1,016 tons, Chase National Bank, African Grove, Luanda
MYROBALANS—363 bgs, Bingham & Co, Excelsior, Bombay
1,392 bgs, Olsen Sales Agency, Excelsior, Bombay
OLIVE OIL—250 dms, Central Hanover Bank & Trust Co, Excelsior, Sfax
PEPPER, BLACK—240 bgs, Volkart Bros Co, Excelsior, Cochin
POTASSIUM SULPHATE—410 tons, Synthetic Nitrogen Products Corp, Golden City, Bremen
TALC—1,250 bgs, Whittaker, Clark & Daniels Co, Pierre De Saurel, Marseilles
VALONIA EXTRACT—2,135 bgs, International Products Corp, Exton, Port Iere
WATTLE EXTRACT—3,143 bgs, River Plate Import & Export Corp, African Rainbow, Durban
2,137 bgs, Olson Sales Agency, African Rainbow, Durban

Boston

BONES—4,328 bgs, Elbert & Co, Mormacmar, Montevideo
GLUESTOCK—503 bgs, H Remis Co, Mormacmar, Rio de Janeiro
113 bls, John Gorvers Co, Tekla, Buenos Aires
HOOFMEAL—989 bgs, International Packers Commercial Co, Mormacmar, Buenos Aires
MICA—22 cs, Eugene Munsell, Mormacmar, Rio de Janeiro
17 cs, Otto Gerdau Co, Mormacyork, Rio de Janeiro
SCRAP—500 bgs, Banco Italo Comm, Examiner, Casablanca
MONTAN WAX—100 bgs, Innis, Speiden & Co, Akkrundyk, Rotterdam
NAPTHALENE—500 bgs, National Shawmut Bank of Boston, American Judge, Antwerp
150 bgs, Herdis, Antwerp
OSSEINE—1,940 bgs, Atlantic Gelatine Division, General Foods Corp, Herdis, Antwerp
PAPRIKA—50 bgs, S Weinstein Co, Exton, Alicante
PEATMOSS—335 bgs, C Gastmeyer Co, Akkrundyk, Rotterdam
TANKAGE—212 bgs, International Packers Commercial Co, Mormacyork, Montevideo
VERMICULITE ORE—600 tons, Munn & Steele Co, African Endeavour, Lourenco Marques
112 tons, California Stucco Co, African Endeavour, Lourenco Marques

—Continued on page 74

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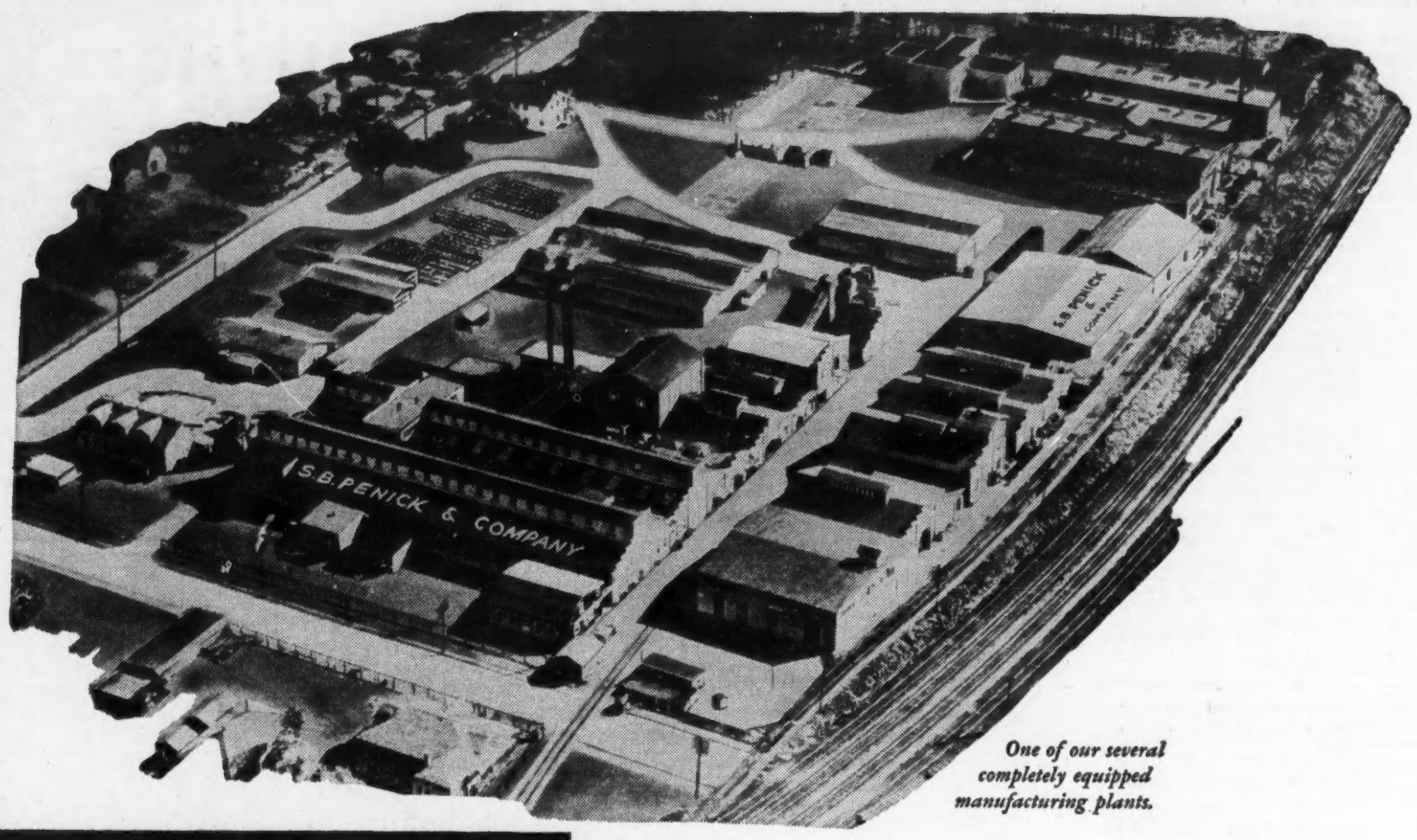

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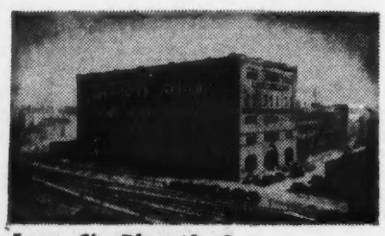

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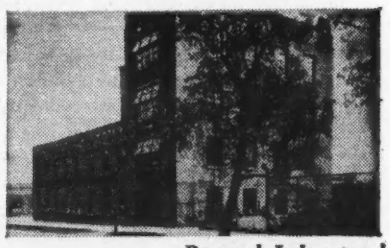

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Botanical Drugs, Spices, Gums

Shiftings in the price pattern for botanical drugs, spices and gums were numerous and varied over the past week, with the declines outnumbering the advances by a numerical advantage of twenty-nine to eight. The index was 0.5 point lower at 195.7.

On the increased side of the price ledger was an advance of 25 cents in quotations for ergot, the second such increase to be noted within three weeks. Increases of 5 cents were reported on ephedra herb and Dalmatian sage; African ginger was up 4 cents; grains of paradise advanced 2 cents; galangal root and red Hontaka pepper were up 1 cent and Moroccan coriander seed advanced ¼ cent.

Noteworthy among the declining prices was the reduction of bold bleached cardomom 15 cents, after the article had been reduced 5 cents during the previous week. Medium bold cardamom took a substantial drop of 40 cents last week. Indian celery seed was again lower by ½ cent last week, following the previous week's decline of 1 cent, and the French variety dropped 1 cent last week.

Siauw No. 1 mace dropped 2 cents last week, continuing the trend noted by a 1 cent decline in the previous week, and West Indian spice also followed the trend, going down another 1 cent last week. West Indian nutmegs followed a similar course, dropping ½ cent last week after a decline of 1 cent in the previous week. California brown mustard seed was down ¼ cent, and the Danish and Dutch seed each declined ½ cent. Madagascar cloves were fractionally easier, as was Dutch caraway seed.

The most striking reduction in the field of medicinal botanicals was in the case of rhubarb root, which was quoted at 25 cents lower than in the previous week. Calendula flowers, prince's pine herb and malva leaves were all reduced 5 cents; kamala powder, blood root and mandrake root were each down 2 cents, and cascara sagrada bark, white pine bark, hawthorn berries, horehound herb and blackberry root were each reduced 1 cent.

The pepper market had an unsettled and trying week, what with confusing reports from Indonesia and uncertainty as to what action will be taken by India on export duties. Black pepper on spot was down 2 cents; March arrivals were down 2 cents; May arrivals were down 3 cents and June arrivals were quoted 2 cents lower. Carolina red pepper was reduced 1 cent; Mexican sports were down 2 cents, and Mississippi sports were quoted 10 cents lower at the source.

Balsams

Fir—Quotations on Canadian balsam were unchanged at $32.50 to $33 per gallon, even though recent jobbing business had lent a firmer undertone to the market. Oregon balsam continued unchanged at $2.35 to $2.60 per gallon.

Peru—Despite the recent report that some suppliers refused business at less than 95c. per pound, the market remained firm at 90c. to $1.10 per pound.

Tolu—Continued to exhibit the price stability that has marked this market for several weeks, with jobbing business continuing the moderately upward trend reported previously. Prices remained unchanged at $2.50 to $2.75 per pound.

Barks

Cascara Sagrada—With the new crop expected to come into the market in the near future, some softening was noted and quotations were dropped to 27c. to 30c. per pound, depending on seller and quantity.

White Pine—Reports from primary sources indicating a better crop outlook, hinging largely on the expected continuance of the current heavy demand for lumber, were sufficient to depress the market for this bark to 17c. to 19c. per pound. Southern lumbering operations show no signs of an early decline and it is probable that supplies will continue in a favorable position.

Beans

Vanilla—Although 328 cases, mostly Bourbon beans, arrived last week, it did little to relieve the tight supply situation and dwindling warehouse supplies did not seem to have much chance of gaining. The markets continued in strong position, with that for Bourbon beans, particularly, gaining additional strength daily. Price quotations were unchanged, although every indication is that it will either hold strong or advance further as the year progresses. Bourbon beans were bringing $4.50 to $4.75 per pound; whole Mexican beans were selling at $7.50 to $7.75 per pound, and Mexican cuts were quoted at $6.25 to $6.50 per pound.

Berries

Hawthorn—An increase in competition in local circles drove this market down 1c. to 39c. to 45c. per pound. Supplies were still said to be sufficient to meet a reasonable rise in consumer requirements.

Raspberries—Dried berries held to former quotations at $1.65 to $1.75 per pound, but opinions on the local market indicated that the new crop may be offered at somewhat lower prices.

Flowers

Arnica—Some eighteen bales of flowers were detained by the Food and Drug Administration last week because of alleged filth, and this lent a decidedly firmer tone to the New York market. Prices, however, remained unchanged at 45c. to 75c. per pound, dependent on supplier and quantity.

Calendula—Brisk competition, in the face of an almost complete lack of demand, forced quotations down 5c. last week, and the flowers were quoted at an uneasy 45c. to 60c. per pound.

Herbs and Leaves

Belladonna—Spotty demand, confined as in past weeks to small lots and jobbing requirements, has led to the belief that prices might be shaded slightly under the minimum of 65c. previously quoted. How-

Market Trends

Prices Advanced

Drugs

Ephedra herb, 2c. per lb.
Ergot, 25c. per lb.
Grains of paradise, 2c. per lb.
Galangal root, 1c. per lb.

Other Articles

Coriander seed, Moroccan, ¼c. per lb.
Ginger, African, 4c. per lb.
Pepper, red, Hontaka, 1c. per lb.
Sage, Dalmatian, spot, 5c. per lb.

Prices Reduced

Drugs

Blackberry root, 1c. per lb.
Blood root, 2c. per lb.
Calendula flowers, 5c. per lb.
Cascara sagrada bark, 1c. per lb.
Cohosh root, black, 2c. per lb.
Hawthorn berries, 1c. per lb.
Horehound herb, 1c. per lb.
Kamala powder, 2c. per lb.
Malva leaves, 5c. per lb.
Mandrake root, 2c. per lb.
Prince's pine herb, 5c. per lb.
Rhubarb root, 25c. per lb.
White pine bark, 1c. per lb.

Other Articles

Caraway seed, Dutch, ½c. per lb.
Cardamom, bold, bleached, 15c. per lb.
medium, bold, 40c. per lb.
Celery seed, French, 1c. per lb.
Indian, ½c. per lb.
Clove, Madagascar, spot, ½c. per lb.
Mace, Siauw, No. 1, 2c. per lb.
West Indian, 1c. per lb.
Mustard seed, Calif., brown, ¼c. per lb.
Danish, yellow, ½c. per lb.
Dutch, ½c. per lb.
Nutmeg, West Indian, spot, ½c. per lb.
Pepper, black, spot, 5c. per lb.
Mar. arrival, 5c. per lb.
May shipment, 5c. per lb.
Red, Carolina, 1c. per lb.
Mexican sports, 3c. per lb.
Mississippi sports, 10c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
195.7	196.2	191.2	193.6	186.8

(For Current Prices see Page 9)

Imports Detained by FDA

Week Ended March 17

New York

Aconite root, 19 bags: moldy.
Arnica flowers, 18 bales: filthy.
Cassia, 712 bales: filthy.
Chillies, 127 bags: filthy.
Cloves, 1,000 bales: filthy.
Coriander seed, 250 bags: filthy.
Laurel leaves, 700 bales: filthy.
Mace: 18 cases: live and dead insects.
Nutmegs, 48 bags: moldy and wormy.
Pepper, black, 975 bags: moldy and insect bored.
Sage leaves, 102 bales: live and dead insects; insect galls; Greek sage substituted.
Sophora japonica, 84 bales: filthy.
Squash seed, 375 bags: dirty.
Turmeric fingers, 55 bags: bored; insect filth.

For Late Market Developments, See Page 4

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ever, no sales were reported at less than that figure, and how much shading could be expected was pure conjecture among theoretical analysts of the market.

Ephedra—Prices were advanced to 30c. to 32c. per pound, with hardly any material reported to be available even at the advanced figure.

Horehound—Even in the face of somewhat restricted supplies, waning demand resulted in a lowering of quotations last week, and offerings were reported at 19c. to 20c. per pound. Here, as in the case of many other items, buyers were operating in a hand-to-mouth fashion and jobbing business was the rule.

Lobelia—Both the herb and the leaves were reported to be strong, scarce and inactive. Restricted stocks remaining from last year's collections seem to be keeping the market firm in the face of small business, and herb prices continued very strong at the former quotation of 85c. to 90c. per pound. NF leaves also showed considerable strength and prices were unchanged at 90c. to 95c. per pound.

Prince's Pine—Expectations of new crop material caused a lowering of quotations in this market last week and the item could be purchased at from 45c. to 50c. per pound.

Sage—The peak price of $1.20 to $1.25 per pound for Dalmatian material reported two weeks ago was further advanced last week to a formerly unreached level of $1.25 to $1.30 per pound. The continued advance of price quotations was, of course, a direct result of the extreme scarcity of the leaves on spot, and little relief could be looked for from the origin, where the very poor 1949 crop left practically no goods obtainable.

Sweet Basil—Scarcity was the keynote of the market for this item, and last week showed no improvement in the supply situation. Prices held firm at the former quotation of $1.10 to $1.15 per pound.

Miscellaneous

Areca Nuts—Although no direct shading of the previously reported prices of 15c. to 16c. per pound was noted, the market was decidedly weak and highly competitive.

Ergot—The market was again higher last week, with $5 per pound quoted nominally and no material offered even at this

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price. Stocks are so low that obtaining a firm quotation on any given amount was difficult almost to the point of impossibility. Although the $5 price is considered to be fairly high, market history tells us that this item has sold at even higher prices in the past.

Grains of Paradise—A quotation of 70c. to 75c. per pound was noted last week, an advance of 2c. over that quoted the previous week, but suppliers' cupboards were still practically bare. Such small amounts have been coming into the market that the feeling was that prospective buyers would have to meet the high price or do without.

Kola Nuts—Even though importers have reported difficulty in obtaining quality goods from the origins, competition forced the market down 2c. last week. Prices quoted at that time ranged from 45c. to 50c. per pound.

Roots

Aconite—Market conditions remained materially unchanged from the previous week and prices were steady at 55c. to 60c. per pound. The Food and Drug Administration detained nineteen bags of the root last week, alleging mold.

Blackberry—Some easing was noted last week and quotations were shaded to 10c. to 12c. per pound, a decline of 1c. from previous prices.

Blood—Another shading of spot prices was noted last week, with the market settling at week's end at 35c. to 40c. per pound. Inventories reflected the careful buying that took place when the 1949 collections were marketed, but demand did not seem to be sufficient to prevent price declines.

Cohosh—Black root was lowered to 20c. to 25c. per pound in an easy market. Supply and demand conditions remained unchanged.

Galangal—An advance of 1c. to a range of 23c. to 25c. per pound was reported on a firm market. Some spot detentions of this material have been reported.

Mandrake—Quotations were lower at 40c. to 45c. per pound, and country sources were reportedly seeking bids.

Rhubarb—Both whole and powdered root were somewhat lower in price last week, and some gain in stocks was reported. However, the market continued to have a decidedly strong tone. Prices quoted for the whole root were $1.25 to $1.30 per pound, and for powdered material, $1.45 to $1.50 per pound.

Seeds

Anise—Czechoslovakian material made its appearance in the New York market for the first time in a long while, and was quoted at 14½c. to 15c. per pound, afloat. All other types held firm at former quotations.

Caraway—Dutch seed was fractionally lower at 14c. to 14½c. per pound, reflecting the previously reported lowering of shipment quotations at the origin.

Cardamom—Bold, bleached fruit of the cardamom was considerably easier on spot last week, dropping 15c. to a range of $3.30 to $3.45 per pound. Medium bold material took an even larger drop, going down 40c. to a quotation of $3 to $3.40 per pound.

Celery—Spot quotations on Indian seed were again shaded fractionally to 24½c. to 25c. per pound, although futures prices held to the previously reported figure. French goods were also lower, dropping 1c. to 29c. to 30c. per pound.

Cordiander—Lack of any increase in spot supplies again caused a tightening in the market for Moroccan seed, and another fractional increase to 10½c. to 11c. per pound was reported.

Mustard—California brown seed was off fractionally at the source, being quoted at 7¼c. to 7½c. per pound. Danish yellow and Dutch goods were also offered at lower prices on spot, the former dropping ½c. to 11c. to 11½c. per pound and the latter being offered at 11½c. to 12c. per pound.

Spices

Allspice—Mexican spice was being quoted at 19c. to 19½c. per pound, but this price was purely nominal in view of the scarcity of goods on the local market.

Clove—Zanzibar spice experienced a not inconsiderable weakening during the first part of the week, but the market strengthened during the latter part of the trading period and at week's end the material was very firm at 24c. to 25c. per pound. Madagascar goods was fractionally easier on spot, being quoted at 23c. to 23½c. per pound.

Ginger—All grades were reported to be firm, and African spice was advanced 4c. on spot to 44c. to 44½c. per pound. No. 3 Jamaica spice was offered at 42c. to 42½c. per pound, following an advance in futures to 40c. to 40½c. per pound. Old crop No. 1 Jamaica goods could be procured at 50c. to 51c. per pound and old crop No. 2 Jamaica spice was available at 48c. to 49c. per pound.

Mace—Siauw No. 1 spice was easier at 90c. to 92c. per pound, as was West Indian goods, offered at 79c. to 80c. per pound.

Nutmegs—West Indian material was fractionally lower on spot. Quotations were off ½c. to 27½c. to 28c. per pound.

Pepper—Unsettled conditions prevailed in the market for black pepper last week after an unconfirmed report that Lampong material from Indonesia might be coming into the market drove prices down. A following report that immediate offerings from Indonesia were extremely unlikely restored some strength and prices commenced to climb back up, but settled at $1.37 on spot, some 6c. per pound lower than that reported during the previous week. Futures for March arrival and May shipment were also $1.37. June was not quoted.

Carolina red pepper was somewhat easier at 40c. to 41c. per pound, and offerings were made for October-November delivery at 37c. per pound. Hontaka goods were stronger at 60c. to 61c. per pound; Mexican sports were easier at 37c. to 38c. per pound, and Mississippi sports were down 10c. at the source to a quotation of 45c. to 45½c. per pound. Sudanese spice, which had been offered in this market earlier in the year, was again available at 51c. to 52c. per pound, and some Ethiopian goods were being offered at 32c. to 32½c. per pound.

Lotz Retires from Hopkins

Charles A. Lotz, official of J. L. Hopkins & Co., New York, has retired from that company. Mr. Lotz served as right hand man to the late J. L. Hopkins until his death two years ago. He had represented S. B. Penick & Co. in the New England states before joining the Hopkins organization, and during his career had also served as purchasing agent for the Rockefeller Institute and in various capacities for McKesson & Robbins, Inc.

Fritzsche Comptroller Joins 25-Year Club

Gustave A. Wohlfort, comptroller of Fritzsche Brothers, Inc., New York, was admitted to the company's Quarter-of-A-Century Club at a dinner tendered in his honor recently at the New York Athletic Club. In addition to the officers' and board of directors' presentation of a government bond, Mr. Wohlfort received a gold wrist watch from his fellow employees and a workshop jig saw from his department associates.

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Essential Oils, Other Aromatics

Advancing prices on Brazilian bois de rose oil, rectified cananga oil, linalool and linalyl acetate when made from the rose wood oil of Brazil virtually balanced in number the lower quotations that developed in angelica root, cedarwood, and Algerian geranium oils. The market index held at 127.4.

Strong oils last week included bois de rose, cananga, clove, Dalmatian sage, peppermint, citronella, patchouli, palmarosa, vetiver, and ylang ylang. All were in fairly tight position and a substantial expansion in consumer undertakings would be quickly reflected through higher spot quotations.

Among exceptionally firm materials were anise, cassia, bergamot, lemon, lime, distilled ginger, natural and artificial sassafras, spearmint, wormseed and wormwood. The last two oils appeared poised to enter the group of strong materials, possibly at higher prices if Spring demand be voluminous.

Most of the cables received from primary market points gave considerable evidence of the ability of shippers to maintain replacement quotations. Shading or acceptance of bids was something of a rarity and where shippers did grant concessions, they were generally small in degree.

Dealers and brokers alike reported demand to be rather spotty during the period under review. Volume of sales has shrunken in considerable measure and demand failed to extend broadly through the entire list of products. Special requirements made up the bulk of transactions. However, so far as spot prices were concerned, the absence of a larger, broader. more sustained consuming request appeared totally without effect on most quotations.

Market Trends

Prices Advanced

Bois de rose oil, Brazilian, 10c. per lb.
Cananga oil, rectified, 10c. per lb.
Linalool, ex bois de rose, 75c. per lb.
Linalyl acetate, ex bois de rose, 85c. per lb.

Prices Reduced

Angelica root oil, $30 per lb.
Cedarwood oil, cans, 2c. per lb.
Geranium oil, Algerian, 50c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
127.4	127.4	125.0	102.8	104.5

(For Current Prices see Page 9)

Essential Oils

Abies Siberica — The market was far from steady. Replacement costs were favorable. Stocks have increased recently and are more adequately distributed on the spot. And the consuming requirement of the moment was far from substantial. However, actual quotations remained at $3.25 to $3.50 per pound, a range much narrower than prevailed in the recent past, when as much as $5.50 was asked in one quarter.

Amyris—Price stability prevailed. In the primary market shipment quotations have shifted very little for some time past. On the spot, demand and supply have been sufficiently balanced to hold sellers' prices very steady. The call was steady last week.

Angelica—One quarter chopped dollars galore from the recently prevailing spot quotations. In that direction the price of oil made from roots became $75 per pound. And, strange though it may seem, the quarter persisting in quoting $190 per pound for a long time past reconfirmed that level last week. Seed oil failed to change, remaining at $80 to $100.

Anise — Some juggling of prices was noted last week. Brokers said that $1.30 per pound could be done. Some talk about a $1.25 market was noted. But an actual check of firsthands in the material showed the range of asking prices to be $1.35 to $1.70 per pound, varying as to dealer. The primary market situation did not improve in the least. Uncertainty with respect to exports remained a constant factor. About the only improvement in the situation of late has been a moderate reduction in the demands put forward by manufacturing consumers.

Bergamot—Some fairly substantial imports made direct by some consumers have taken place, thus restoring a fair reserve of oil. Dealers in this market were firm in their views at $4.40 to $5 per pound, depending on brand and quality. The most frequently named price was $4.50.

Bois de Rose—Prices advanced further. Spot quotations ranged $3.50 to $3.65 per pound, according to dealer. The minimum figure was named in at least two quarters, but other directions quoted $3.55, $3.60 and $3.65 per pound, respectively. The strength at the origin has been pronounced over a substantial period of time; the sustained advance began in June, 1949.

Cajeput — Conditions in the primary market failed to provide much reason to expect that shipment parcels would soon be more easily obtained and exports to return to normal frequency. The spot market remained understocked, but consumers have turned in many instances to other oils because of the scarcity of cajeput.

Cananga — Prices continued to work higher; the rise last week came in the quotation on rectified oil, and late in the period the price on that article had become $5 to $5.50 per pound. Native oil remained unchanged at $4.20 to $4.50, as to seller, but the minimum of the range appeared destined for a further advance unless shipments from the origin shall improve substantially.

Caraway—Considerable competition prevailed on spot without actually driving the general level of prices downward. Quotations ranged $3.25 to $4 per pound, the minimum of which was more or less in line with what it would cost to replace the current very fair-sized stock.

Cardamom—Quotations still ranged $50 to $65 per pound, as to dealer, and the idea last week was that no further drop in quotations was likely unless a downward turn in prices shall develop in the shipment quotations of green seed. Demand has been hurt substantially by the rise in prices, a movement almost continuous since oil was available at $23 per pound in July of 1948. At the end of 1948, the market had reached $35. By July, 1949, it had become $46.50. And $54 ruled in September, 1949. The downward movement began in late February, and the present market is $14 below the peak point.

Cassia—Quotations ranged $2.05 to $3 per pound, as to supplier, but talk in brokers' circles was of a market around $2. Demand has not pressed strongly so far as spot stocks were concerned. The replacement market problems are as real and complex as at any time since the Reds took over in the production country of China.

Cedarwood—Oil in cans was offered at the lowest price of 40c. per pound, though upwards of 55c. was asked in some quarters. However, when packed in drums, the price still was 32c. to 50c. Demand was routine in variety and mainly jobbing in size.

Celery—Though the seed market has been mainly firm in India and fairly strong in France, the position has not been one to suggest any material change from the current quotation of $15 to $18.50 per pound. The food processors have been taking only routine quantities for some time past and their call was still light during the past week.

Citronella—Most all sellers of Ceylon held rather strong price ideas at $1.20 to $1.25 per pound. However, one quarter continued to name $1.10. The shipment quotations have been well maintained at the origin from whence offerings have not been too liberal for some time past. Java type oil remained high and strong.

Clove—The present strength in oil prices traced to the advance in spice on the primary market. Spot quotations on oil made from either Madagascar or Zanzibar spice were $1.60 to $1.65 per pound, and some brokers declared it difficult to obtain deliveries at less than $1.65. On the rise some pickup in consumer operations has developed.

Dillweed—Quotations still were $5.75 to $7.10 per pound, with the majority of dealers failing to shade $6 or $6.25. In point of fact, market gossip last week even suggested $5.65 as possible, but several suppliers intimated that such a quotation was being put out purely for market effect and without regard to goods being actually available. The fact seemed to be that most dealers hold very little stock and that they go into the season of reviving consumer requirements with the smallest of spot stocks and the most limited holdings at the origin.

Eucalyptus—Price stability seemed to have been achieved after a series of price declines on oil from certain locales. So far as Australian oil has been concerned, however, practically no weakness has prevailed at any recent time, mainly because Australian prices were strong and supplies were limited. Quotations, named according to dealer and based on oils of varying quality, were as follows:—80 to 90 percent,

For Late Market Developments, See Page 4

67c. to $1.45 per pound; 70 to 80 percent, 55c. to $1.30.

Geranium—Bourbon oil held strong at $17 to $20 per pound, the range covering differences in sellers' minimum ideas on price. The article was hard to get at any price because of the limited replacements obtainable at the origin. Algerian oil was slightly easier, the market being lower at $14.50 per pound as the quotation in one quarter, but ranging, as to dealer, to a top of $16.25. Though not in liberal supply or distribution, Algerian oil was easier to get than Bourbon.

Ginger—Lower prices on oil appeared to be in the making. Some quite substantial price declines have come in African and Jamaican new crop root, and some fair-sized purchases have been made. Arrival time is some time away, since the offerings of African root have been for March-May shipment, and the Jamaican position has been mainly March-April, and has been restricted to No. 3 grade. Present stocks of oil were made from high cost root, and hence the market continues at $23 to $28 per pound.

Lemon—Some domestic producers were willing to write six-month contracts at the current quotations at $3.25 per pound. Other domestic producers quoted spot goods at $2.95 to $3. All called the market exceptionally firm because of current production costs. Messina oil was $2.85 for good brands and $5 for top qualities. Demand had a routine quality last week, but on the whole compared favorably with the movement in recent periods.

Lime—Firmness governed this market. Minimum quotations on distilled Mexican oil were $5.50 per pound, although some quarters quoted upwards of $6.50. West Indian oil ranged $6 to $7.50. With the season for widened demand drawing steadily closer, most dealers expected that decreasing supply would bring further rise in local quotations.

Ocotea Cymbarum—The market was firm to strong; firm, because of moderate spot supply; and strong, because of replacement costs. Demand has not been too active of late, but some think it will grow.

Orange—Demand should broaden with the arrival of Spring, and the probable rise in consumption of many articles flavored with some variety of oil. Prices at the beginning of the more active time of year stand at low levels. California oil is 10c. lower than a year ago. Floridian oil is 18c. lower. And Italian oil is 30c. cheaper. Current quotations should encourage liberal covering of Spring and Summer needs.

Patchouli—The market at $22 to $25.50 per pound, as to seller, was strong in price but stocks could scarcely be scarcer. Importers have found it highly difficult to place orders in the primary market, regardless of price. Of course, quotations at today's high levels curb consumption severely.

Peppermint—Though most suppliers called the market very firm, it was noted that advancing prices have been succeeded by a degree of stability at unchanged positions. It was clear that stocks were in strong hands, both on spot and at the origins. Demand did not press much last week but some expect a gain in export business during the weeks immediately ahead.

Sage—Sellers suggested that, for the time being, price advancing has come to an end and that, given a normal output in European quarters this Summer, a reversal of the recent trend at all points might reasonably be expected. It was also said that demand for oil was apt to undergo some recession.

Spearmint—Although not very active, the market was still quite firm and reasonable expansion in consumer or exporter request could rather easily stir prices into a moderate rise. The amount of unsold oil now in whatever hands was called relatively conservative in size.

Vetiver—Replacement of current stocks was not easy in primary markets where stocks were not plentiful and where price ideas were tinged with strength. Spot quotations on Bourbon oil were $13 to $13.75 per pound, and Haitian was $10 to $14. No Java oil was offered on the open market; some said none existed here.

Ylang Ylang—Scarcity of cananga oil has all but totally exhausted the stock of ylang ylang on spot. Trading in either of the two oils was almost impossible last week; most of the usual suppliers had either no oil or merely token quantities.

Aromatic Chemicals

Ionones—A considerably firmer market, and also one of wide range, prevailed last week. Alpha was quoted $4.40 to $6.50 per pound; beta, $6.50 to $14; and methyl, $4.75 to $5.55.

Linalool—The steady rise in the price of bois de rose oil has raised the production cost of linalool made from that item. Quotations on the synthetic ranged $5.05 to $5.15 per pound last week.

Linalyl Acetate—This synthetic, when made from the currently high price bois de rose oil, fetches high prices. The 90-92 percent synthetic item ruled at $5.20 to $5.25 per pound last week and the 96-98 percent material was at least $6.05. The synthetic made from lignaloe wood was firm at $6.50 to $7.

Methyl Salicylate—Since the late 2c. rise in quotations, the market on this synthetic has been exceptionally firm. Even demand has been somewhat improved since prices reached 42c. to 47c. per pound.

Jean Niel Changes Name To Perfumery Associates

At the recent annual stockholders meeting of Jean Niel, Inc., New York, it was unanimously decided to change the name of the firm to Perfumery Associates, Inc., the new name being more descriptive of the activities of the corporation as now constituted.

Henry Retailliau and Robt. A. Luthy were re-elected directors and will continue to serve, respectively, as president and secretary-treasurer. Dr. A. T. Frascati was elected a director and vice-president of the corporation.

The company represents Jean Niel, Grasse, France, in the United States, and will continue to supply fine absolutes, essential oils and specialties of this French house.

Dura to Move Offices

Dura Chemical Company will move its offices to larger quarters at 20 Vesey street, New York, on April 1. The firm has recently expanded its operations to include the representation of foreign shippers of bergamot, lemon and other essential oils.

Polak & Schwarz Advances Carsch

Polak & Schwarz, Inc., New York, has appointed Gustav Carsch manager of its Chicago branch. Mr. Carsch has been associated with the Polak & Schwarz organization as a sales representative in the midwest territory for several years.

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Partnership Incomes Reported for 1945

According to a tabulation prepared under the direction of the Commissioner of Internal Revenue, partnership income tax returns for 1945 included the following data for the chemical and related products and petroleum and coal products industries:—

Chemicals and Related Products

	All returns	Returns with ordinary net income
Number of returns	1,702	1,494
Total receipts	$283,834,000	$276,104,000
Gross receipts from business	279,429,000	271,781,000
Other income	4,405,000	4,323,000
Total deductions	237,863,000	229,564,000
Cost of goods	182,053,000	176,527,000
Salaries and wages	11,922,000	11,517,000
Rent	2,298,000	2,217,000
Repairs, depreciation, depletion	4,538,000	4,149,000
Taxes	2,116,000	2,044,000
Other deductions	34,936,000	33,110,000
Ordinary net income	*45,970,000	46,541,000
Compiled net profit	*45,930,000	46,499,000

* Less deficit.

Petroleum and Coal Products

	All returns	Returns with ordinary net income
Number of returns	119	94
Total receipts	$56,347,000	$53,673,000
Gross receipts from business	55,771,000	53,179,000
Other income	576,000	494,000
Total deductions	51,674,000	48,621,000
Cost of goods	42,485,000	40,295,000
Salaries and wages	1,155,000	958,000
Rent	328,000	300,000
Repairs, depreciation, depletion	2,061,000	1,726,000
Taxes	1,775,000	1,761,000
Other deductions	3,870,000	3,581,000
Ordinary net income	*4,673,000	5,052,000
Compiled net profit	*4,768,000	5,078,000

* Less deficit.

Oestel 25 Years with Ungerer

Joseph Oestel, head of the New York shipping and filling departments of Ungerer & Co., was recently presented with a gold watch to commemorate his twenty-fifth anniversary with the company. Mr. Oestel had been associated with Elson & Brewer for thirteen years prior to taking charge of the Ungerer warehouse on Twentieth street, New York.

Malmstrom Names Richey To Take Charge of New Plant

N. I. Malmstrom & Co., Brooklyn N. Y., has appointed Thomas B. Richey, jr., production manager. In this position, Mr. Richey will have charge of a new plant now being erected to manufacture new chemicals from wool grease for the cosmetic, tanning and oil industries.

T. B. Richey jr.

Mr. Richey, who received a chemical engineering degree from Columbia University in 1939, has been employed for the past three years as a chemical engineer in the production and development of processes for the electrochemicals department of E. I. du Pont de Nemours & Co., Wilmington, Del.

Chicago Cosmetic Chemists Plan Meeting on April 11

The Chicago chapter of the Society of Cosmetic Chemists will meet at Henrici's restaurant, Merchandise Mart, Chicago, on April 11 at 6:30 p. m. Speakers and their topics will be Miss Eleanor Nangle, beauty editor of the *Chicago Tribune*, "What the Cosmetic Chemist Should Know About the Problems of Beauty Editors," and Dr. S. D. Gershon, research director for the Pepsodent division of Lever Brothers, "What the Beauty Editor Should Know About the Problems of Chemists."

TGMA Meets June 15-17

The Toilet Goods Manufacturers As-Association of Canada will hold its annual meeting at the Bigwin Inn, Ontario, Canada, on June 15 to 17. Details on the program for the meeting will be revealed by the association in the near future.

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Piedmont AATCC Plans Spring Meeting April 1

The Piedmont section of the American Association of Textile Chemists and Colorists will hold its annual spring meeting at the Robert E. Lee hotel, Winston-Salem, N. C., on April 1.

The student chapter of North Carolina State College will have charge of the first part of the technical meeting, at which student members from that college and Clemson College will present original technical papers in the first annual student technical paper contest. Judges of the contest will be Dr. Harley Y. Jennings, Dan River Mills; Clarence Hooper, Burlington Mills, and Linton C. Reynolds, Riegel Textile Corporation.

The second portion of the technical session will feature a paper on "Stripping of Nylon with Textene," by W. C. Peurifoy, Hoover Hosiery Mills, who will also lead the discussion to follow. Henry C. Alexander will be guest speaker at the banquet in the evening.

ADMA Section to Meet

The spring meeting of the production and engineering section of the American Drug Manufacturers Association will be held at the Greenbrier, White Sulphur Springs, W. Va., on April 13 to 14. The meeting will be restricted to members of the association.

TGA Issues Standard Number 34 For Sodium Carboxymethylcellulose

The Toilet Goods Association has published its standard number 34, for sodium carboxymethylcellulose. The association's board of standards has suggested that all purchasers of the material use this standard as a minimum specification.

Robert Gair Appoints Three

The Robert Gair Company, New York, has appointed William H. Caddoo manager of its Thames River division, New London, Conn., and has named C. S. Huestis manager of container board production for its container board plants. In addition, Sumner R. Cahoon has resigned as vice-president in charge of container operations, and William T. May, sales manager of the container division, has been placed in charge of container operations.

U.S. Commerce Chamber Explains Selling to Govt.

Businessmen who want to sell to the federal government have many of their knottiest problems simplified for them in a sixty-four-page guidebook published by the Chamber of Commerce of the United States. The pamphlet bears the title "Selling to the Government."

It explains procurement operations and lists agencies which make major purchases. The businessman is shown how he can learn which agency commonly buys items that he makes, where and how they are bought and what kind of purchases are being made currently. The pamphlet also shows how the businessman can get the spot information made available by government agencies and by private publishers, and how he can make use of it in his business planning.

Solvay Using New Bag

The adoption of a new type, polyethylene lined paper bag for flake calcium chloride packaging has been announced by the Solvay Sales Division, Allied Chemical and Dye Corporation. This new bag will be used for both the 100 and 25-pound packages. The new package was adopted after extensive field tests and is reported to be stronger, possess a higher resistance to moisture and have a longer storage life than the conventional asphalt-lined bag previously used. In addition, the polyethylene lining is not affected by extremes of temperature; it will not crack in cold weather or melt in hot weather.

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Protective Coatings Materials

Price changes last week were limited to declines in imported casein and shellac. That these fluctuations were of relatively minor importance was reflected in the index for coatings materials, the figure holding fast at 169.8.

White leads were maintained at previous listings despite the recent decline of one-half cent per pound in metallic lead. Lead oxides, of course, had moved down earlier with the metal. Zinc pigments were also steady in the wake of the recent one-quarter-cent advance in slabs. In earth colors, reports were current that primer and surfacer oxides were due for a one-quarter-cent rise on April 1.

New York quotations on bleached shellac and orange grades were lower during the period. The former was cut one cent per pound on both bonedry and refined. Lemon No. 1 dropped a like amount. Superfine sank 2 cents, as did TN lac. Business, though of small volume was reported fair. Trading in natural resins was slow in the main.

Imported casein was down another one-half cent per pound in New York. Both standard and premium grades of domestic held their ground. Reports from Buenos Aires indicate that settlements have been reached in some areas in the Argentine dairy strike.

In synthetic resins, alkyds business in March was said to be above February levels, which, in turn, had showed a gain over January. Demand was also strong for pentaerythritol resins. Call for melamines, maleics, phenolics and urea-formaldehydes ranged from fair to moderately good. Prices were steady all around, although phenol intermediate moves one-quarter cent and one cent per pound April 1 on synthetic and natural grades, respectively.

Plasticizer makers, meanwhile, were keeping close tabs on the developing ethanol situation. Spot quotations on that alcohol were recently advanced 5 cents to 6 cents per gallon, and although nothing has as yet materialized on plasticizers, advances remain a distinct possibility.

Market Trends

Prices Advanced

None

Prices Reduced

Casein, imp., acid-precip., ½c. per lb.
Shellac, bleached, bonedry, 1c. per lb.
refined, 1c. per lb.
Lemon, No. 1, 1c. per lb.
Superfine, 2c. per lb.
TN, 2c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
169.8	169.8	171.6	196.4	226.3

(For Current Prices see Page 9)

Prime Pigments

Chrome Colors—No changes were reported in the price structure during the past week. Demand was holding up to levels that were called good and the supply was at a sufficiently high point to satisfy the needs of the market with no particular difficulty.

Earth Colors — Prices on primer and surfacer oxides were due for a ¼c. rise on April 1, it was heard last week. Otherwise, there was nothing new on price. Demand continued to hold at what were characterized in one quarter as very good levels. It was said that January and February sales were equal to those of last year, and March, so far, has been running about the same. Except for the automobile industry, the demand was said to be pretty evenly distributed. Automobiles were taking a particularly heavy share of material, noticeable even with one of the major producers of cars out on strike. Importations during the period totaled 2,330 bags of earth colors from Avonmouth, 100 barrels and 1,523 bags of iron oxide from Malaga.

Lead Pigments — The metal was quiet last week in the wake of the recent ½c. decline. Pigs held firm at 10½c. per pound, New York basis, and at 10.30c., St. Louis. As for pigments, apart from the automatic reduction in lead oxides which accompanied the metal drop, no action was taken. Apparently, it was felt that the most recent decline in lead was too small to warrant any further adjustment of white lead schedules at this time, particularly in the light of the increasing demand for pigments because of Spring painting operations. Stocks remained plentiful all around.

Mercuric Oxides—Quicksilver held firm at $71 per flask in round lots and $73 to $75 in small lots. Traders, for the most part, were inactive, although there were some small lot sales reported. Oxides, meanwhile, were in ample supply and continued at previous price levels.

Orange, Molybdate—Demand was running to what were called good levels, while the supply was ample for the market. Pricewise, the item was without feature.

Synthetic Iron Oxides — Demand was reported to be fairly active. A seasonal pickup in business in the paint industry was naturally expected to bring with it an increased call for these materials. That added call was not evident yet but was expected before long. Supply was sufficient to satisfy the normal demands of the market. The price listings were without change.

Yellow, Zinc — Despite recent fluctuations in the price of the metal, there were no changes reported in this color during the period under review. Demand was generally called good but it was of a spasmodic nature. Its up and down tendency, however, was considered about normal for this particular product. Supply was in good enough shape to make the filling of normal orders no particular problem.

Zinc Pigments — Slabs were reported very firm during the period following the recent ¼c. advance. Demand for the metal, particularly from the galvanizing industry, was said to be continuing at a strong pace. Meanwhile, quotations held firm at 10c. per pound, East St. Louis basis.

Notwithstanding the recent rise in the metal, pigments held their ground during the week. One observer pointed out that the change in slab zinc was too minor to effect any real change in the situation. Demand was said to be at a healthy rate. Stocks were adequate in the face of current consumer requirements. However, it was noted that supplies were by no means long.

Fillers and Extenders

Calcium Carbonate—Stocks were ample during the week. Demand was fair. Prices held steady. Importations during the period totaled 4,621 bags of whiting and 51,000 pounds of calcium carbonate from Avonmouth, Antwerp and London.

Synthetic Resins

Alkyd Resins—Supplies of alkyd resins were abundant. Demand was reported to have maintained a good level so far this month, being somewhat better than February, according to some quarters. February business was in turn said to be better than January. The market, however, would have to experience a very much heavier demand before alkyds sellers stood any danger of running short of material. After all, phthalic anhydride was in long supply, drying oils were abundant, and only glycerin among the raw materials posed any threat. Glycerin supplies were slightly on the short side, but consumers were able to get all that they actually needed. Meanwhile, the supply of other polyhydric alcohols such as pentaerythritol and sorbitol was adequately available.

Maleic Resins — Despite the benzol shortage, thrown into a seriously critical position by the recent coal strike and the heavy demand from the phenol and styrene manufacturing industries, maleic anhydride for the manufacture of maleic rosin modified resins seemed adequately available. Demand for these resins was reported as moderate under a firm price structure.

Melamine Resins — With melamine maintaining a steady price position along with butyl alcohol and aromatic solvents, melamine resin solutions were firmly priced. Consumers were able to obtain sufficient material to meet their needs.

Pentaerythritol Resins — Ample quantities of rosin modified pentaerythritol resins of maleic and other types were available. Demand was reported running at a high level, but with abundantly available raw materials and production capacity, there was no indication of any shortage. Prices were firm.

Phenolic Resins—Price patterns on the various types and grades of phenolic varnish resins were firm last week, and the feeling was expressed that despite the critical shortage of phenol and its mod-

For Late Market Developments, See Page 4

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erate price advance, there would be no immediate general price change.

Phenol as an intermediate advanced a net of ¼c. per pound on synthetic material and 1 full cent on natural phenols. Cresylic acid and cresols were unchanged. This price advance in phenol has not as yet been reflected in the price structure of the alkyl substituted phenols used in resin manufacture. The cresylics are, of course, also unchanged. Until there are some changes made on intermediates, it was felt that resins will hold firm. Formaldehyde was unchanged from the levels which have prevailed in the market over the past year.

Urea-formaldehyde Resins — Supplies were abundant for use in the wide range of applications to which these resins have been adapted, from baking enamels and textile coatings to adhesives and plastics. There was a good and steady supply of all raw materials from which these resins are made, and ample production capacity for output. Demand was said to have improved in recent weeks, particularly from the paint industry whose demand was said to have more than offset the downward tendency in textiles.

Natural Resins

Trading in the New York market continued slow in the main last week. Stocks, though by no means plentiful, were viewed as adequate in the face of current consumer needs. Prices held firm. Imported during the period were 1,994 baskets and 51 bags of copal gum from Macassar, Surabaya, Singapore and Manila and 256 bags of dammar from Singapore.

Shellac — Both bleached and orange grades were lower in New York last week, the former dropping 1c. per pound and the latter sinking 1c. to 2c. Business was said to be pretty fair, but orders were of small volume. Stocks were plentiful all around. Reductions on shellac varnishes were erroneously reported in the previous issue. A check through the market last week revealed that no such action had taken place. Imports totaled 386 bags of shellac from Genoa and Rotterdam.

Lacquer Materials

Alcohols for the manufacture of alkyl substituted plasticizers were all in good supply, and with the exception of ethyl alcohol, maintained a firm price position. Ethyl alcohol, as reported the previous week, advanced 5c. to 6c. per gallon on spot, the boosts becoming effective April 1 on contract. This was of interest to users of ethyl alcohol both as a solvent and as an intermediate in plasticizer manufacture because of its potential increased cost effects on lacquer raw materials.

The organic acids used in plasticizer manufacture were all in adequate supply, making the overall plasticizer market one of ready availability. The phthalate plasticizers were fortunate in not being threatened with any possibility of shortage because virtually all producers of phthalic anhydride were in a long supply position. This was so because, while domestic production of naphthalene was heavily curtailed by the recent coal strike, imports for the past few months have been coming in at a good rate.

Dibutyl Phthalate—While the advancing price structure in ethyl alcohol had inherent in it the possibility of increased costs on fermentation butyl alcohol, which in turn might eventually boost butyl alcohol prices slightly, there was no indication in the market last week that any such developments were in the immediate offing. Accordingly, in view of this situation and the apparently firm price position on phthalic anhydride, dibutyl phthalate prices were expected to hold firm. Supplies of both phthalic anhydride and butanol were abundant, and accordingly there was no pinch in the availability of this plasticizer.

Nitrocellulose — All viscosity ranges were amply available for prompt shipment. The demand continued at a high level, and price structures maintained the firmness which has characterized the market over recent months.

Sebacates — There were no price changes involved in this market at the end of the first quarter. Prices on all grades and types were firm, and there was no potential price adjustment foreseen because most of the raw materials involved in their manufacture were also stable, particularly the acid. Demand was reported to be running at a moderately good volume, and offerings were available for prompt shipment.

Miscellaneous Materials

Casein—Imported fell off ½c. per pound in New York last week, sinking to a range of 20¾c. to 21c. per pound. Both premium and standard grades of domestic held firm, however, continuing at 24c. to 24½c. and at 23½c. to 24c. per pound, respectively.

There was not too much interest in imported casein. Call for domestic, which has been good for the past few weeks, was reported to be tapering off. Imported supplies were viewed as good. Domestic stocks were said to be ample, though nothing was available on spot. Reports from Buenos Aires indicate that settlements have been reached in some areas in the Argentine dairy dispute. Arrivals last week totaled 3,400 bags of casein from Buenos Aires and Montevideo.

Naval Stores

Pine Gum—Prices received by producers for crude pine gum delivered to processing plants during the week ended March 18 averaged $21.06 per standard barrel of 435 pounds, according to the Department of Agriculture. This was virtually unchanged from the previous week's average of $21.02.

The twenty-three reporting plants received 7,946 barrels of gum for an average of 345 barrels per plant as compared with 240 barrels a week earlier. The gum contents averaged 11.11 gallons of turpentine and 297.7 pounds of rosin per barrel. The gum was graded 22 percent WW; 30 percent WG; 21 percent N; 14 percent M; and 13 percent K and below.

The record of the gum naval stores markets over the week ended March 24 was as follows:—

Gum Rosin

Price per 100 lbs.

	Savannah Exchange (Low of range) Mon.	Tues.	Wed.	Thurs.	Fri.	New York c.i.f., l.c.l., f.o.b. ex N. Y. whse. Friday	
B	$5.75	$5.75	$5.75	$5.75	$5.75	$7.00	$7.75
D	6.00	6.00	6.00	6.00	6.00	7.00	7.75
E	6.00	6.00	6.00	6.00	6.00	7.50	8.25
F	6.00	6.00	6.00	6.00	6.00	7.50	8.25
G	6.00	6.00	6.00	6.00	6.00	7.50	8.25
H	6.11	6.11	6.11	6.11	6.11	7.50	8.25
I	6.11	6.11	6.11	6.11	6.11	7.50	8.25
K	6.11	6.11	6.11	6.11	6.11	7.50	8.25
M	6.11	6.11	6.11	6.11	6.11	7.50	8.25
N	6.11	6.11	6.11	6.11	6.11	7.50	8.25
WG	6.40	6.40	6.40	6.40	6.40	8.00	8.75
WW	6.80	6.80	6.80	6.80	6.80	8.10	8.85
X	6.80	6.80	6.80	6.80	6.80	8.10	8.85
	Drums						
Sales	...	...	...	...	...		
Receipts	779	789	113	153	83		
Shipments		77	4	801	...		
Stocks	28,408	29,120	29,229	28,581	28,564		

Gum Turpentine

	Drums Savannah Exchange Bulk Mon.	Tues.	Wed.	Thurs.	Fri.	New York (net, dms.) tanks l.c.l. f.o.b. ex N.Y. whse. (7 lbs.) Friday	
Per gal.	.43	.43	.43	.43	.43	50½	.58
Sales, bbls.	...	...	...	...	...		
Receipts, bbls.	507	170	18	120	168		
Shipments, bbls.	346	102	51	3,263	7		
Stocks, bbls.	6,889	6,957	6,925	3,782	3,943		

Allied Asphalt Marks Twenty-Fifth Anniversary

Allied Asphalt & Mineral Corporation is celebrating its twenty-fifth anniversary this year. The company was founded in 1925 to market pitch to the industries manufacturing paint and varnish, electric wires and cables, printing inks and floor coverings. Subsequently the company expanded its activities by offering controlled specifications of various products and commenced processing wax compounds for the protective coatings industry, carbon paper, cosmetics, printing inks, paper industry and others.

Crownoil Chemical Succeeds Crown Wittenberg Chemical

The Crownoil Chemical Company, with offices and manufacturing facilities at 2-14 Forty-ninth avenue, Long Island City, N. Y., last week succeeded the Crown Wittenberg Chemical Corporation, which has been dissolved. Sales activities in the field of synthetic resins, drying oils and vehicles, manufactured or refined by Crownoil Chemical, will be under the direction of George E. Hand, long-known to the paint, varnish, lacquer and allied industries.

Pratt & Lambert Names Wilkinson Asst. Treasurer

Pratt & Lambert, Inc., Buffalo, N. Y., has appointed Burton F. Wilkinson assistant treasurer. Mr. Wilkinson joined the company in 1938, was transferred to the architectural service department in 1941, and was assigned duties in the general sales department in 1946.

Valite Publishes Catalog

The Valite Corporation, New Orleans, La., has published a new catalog describing its "Valite" resins for industry. The booklet describes the company's thermoplastic and thermosetting resins, giving physical and chemical specifications of each and suggesting applications.

Wittenberg-Crown Oil Merger Not Consummated

A. J. Wittenberg announced last week that the recent plan to merge A. J. Wittenberg Corporation with Crown Oil Products Corporation was not consummated. The Wittenberg Corporation will continue its activities independently as heretofore under the name of A. J. Wittenberg Company, with offices in the Bank of Manhattan building, 2927 Forty-first avenue, Long Island City, N. Y. Telephone number is STillwell 4-8178.

CDIC Paint Technicians Discuss Copper Finishes

Dr. E. C. Botti, pigment division, E. I. du Pont de Nemours & Co., was the featured speaker at the recent meeting of the Cincinnati, Dayton, Indianapolis and Columbus Paint and Varnish Production Club. Dr. Botti discussed the "Formulation of Copper Phthalocyanine Finishes," stressing the high tinting strength, the resistance to chemicals, and the lesser amount of floculation obtained with the new and improved types of copper phthalocyanine blues and greens.

Monsanto Has New Resin

Development of a synthetic thermosetting resin especially designed for use as a core sand binder has been announced by Monsanto Chemical Company, St. Louis, Mo. J. R. Turnbull, general sales manager of Monsanto's plastics division, Springfield, Mass., said in announcing the new product that it is an efficient, rapid-curing phenolic of high bond strength and low cost, devised to meet the exacting requirements of the foundry industry.

N.Y. Paint Technicians Monthly Meeting April 6

New York Paint and Varnish Production Club will hold its monthly meeting on Thursday, April 6, at 6:30 p. m., in the dining rooms of the Building Trades Employers' Association, 2 Park avenue. Dr. H. S. Davidson, of the Imperial Paper & Color Corporation, the principal speaker, will give a talk entitled "Electron Microscopy in Relation to Color Pigments."

At the same time the following officers for 1951 were recommended by the club's nominating committee:—president, Ralph W. Charlton, Congoleum-Nairn, Inc., Kearny, N. J.; vice-president, Herbert E. Hillman, Eagle Paint & Varnish Works, Long Island City; secretary, E. Dale Albert, Keystone Varnish Company, Brooklyn, and treasurer, W. E. Santoro, Standard Varnish Works, Staten Island.

Suggested as members-at-large on the executive committee were John G. Lundgren, Titanium division, National Lead Company; Joseph J. Stivale and Carl L. Engelhardt, both of Brooklyn Varnish Manufacturing Company .

Atlas Putty Charged With 'Misrepresentation'

Misrepresentation of the linseed oil content of putty is charged in a complaint issued by the Federal Trade Commission against Harry Sussman and Michael Schnitzer, trading as Atlas Putty Company, Brooklyn, N. Y.

By labeling certain of their putty as "Pure Linseed Oil Putty," the complaint alleges, the copartners have represented that the only oil used in its composition is pure linseed oil. Actually, it says, "substantial quantities" of other oils are included. The practice is challenged as "unfair and deceptive" in violation of the Federal Trade Commission Act. The copartners are granted twenty days in which to answer the allegations.

Dallas-Houston Paint Technicians to Meet

The eighth annual joint meeting of the Dallas and Houston Paint and Varnish Production Clubs will be held at the Stoneleigh hotel, Dallas, on May 6. Technical papers will be presented by both clubs covering projects on which they are now working and several talks by representatives of suppliers will be given. A. T. Montanye and V. C. Bidlack, president and secretary, respectively, of the National Federation of Paint and Varnish Production Clubs, are expected to speak.

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Oils, Fats and Waxes

Crude vegetable oils continued to move upward last week led by cottonseed and soybean oils, which reached new season's highs. Corn oil also was higher, while peanut oil was unchanged but firm. Price index advanced .5. Animal fats were unchanged and steady with tallow and grease.

Crude cottonseed oil advanced fractionally under a good demand and limited stocks in the South. Sales took place at new highs for the season in the Valley and Texas. Crude soybean oil also was stronger and was advanced for all deliveries. Light stocks of peanut oil were maintained at the recent price advance. Corn oil was scarce and up fractionally. Bleachable cottonseed oil futures also reached new season highs, reflecting the strength of crude oil.

Crude coconut oil remained firm, with copra which was lifted $2.50 per ton and offered sparingly.

High cost of castor beans resulted in a fractional price increase for castor oil for shipment from Brazil. Domestic castor oil also was firm.

Trading in tallow and grease was fairly active. Soapmakers purchased sizable quantities of all grades at unchanged prices, while small quantities were held at slight premiums.

Tung and dehydrated castor were the firmest among drying oils, while linseed oil continued unsettled under keen competition and cheaper oil for May forward delivery.

Reports of uncompleted barter sales in carnauba wax in Brazil kept the local market unsteady and price shading was possible for tonnage. Imported montan and refined ouricury waxes also were easier.

Cottonseed Oil

Bleachable cottonseed oil futures continued to advance last week under good demand, and prices reached new season highs for all months. Trading was active, with trade buyers supporting nearby deliveries. Futures reflecting the stronger crude oil market, whicl. also advanced to new season highs. Soybean oil was firmer and a contributing factor. The government was reported to have cleaned up its holdings of more than 300,000 tons of cottonseed.

Reports that CCC had sold a lot of crude cottonseed oil in Texas was officially denied.

Sales of crude cottonseed oil were reported at 13½c. per pound, tankcars, mills, f.o.b. Valley, and 13¼c., Texas, both making new highs for the season.

Shortening shipments in February totaled 269,279,000 pounds, compared with 264,126,000 pounds in January, and edible oil, 11,332,000 pounds February and 11,690,000 pounds January, according to the Institute of Shortening and Edible Oils, Inc.

Sales and prices of refined bleachable prime summer yellow cottonseed oil in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended March 24 follow:—

	Sales	Cents per pound—High	Low	Close
May	423	15.75	14.89	15.60S
July	523	15.50	14.68	15.36—15.35S
September	330	14.88	14.31	14.80—14.78S
October	110	14.25	13.81	14.20S
December	127	13.85	13.50	13.88@13.92
January	...	....	.....	13.88N
March	...	....	....	13.45@13.80

Total sales, 1,513 tankcars, including switches.

Memphis.—Crude cottonseed oil was sold at 13⅜c. and crude soybean oil at 13c. per pound, tankcars, Valley. No selling pressure. Cottonseed meal improved, 41 percent held at $61.50 per ton, Memphis. Cake held at $56.50 per ton, bulk, Mississippi mills. Soybean meal, 44 percent, $64.50 per ton, sacked, Valley. Hulls in light supply, and ranged from $8 to $10 per ton bulk, mills.

Linseed Oil

Quiet conditions continued to dominate the local market. Buying interest continued slow, and the recent price decline failed to improve demand. Raw oil ranged from 16.50c. to 16.90c. per pound, tankcars, Zone 3, depending upon seller, with intimations that firm bids at the lower figure would be accepted. Less carlots were unchanged, and maintained at the 16.9c. tankcar basis.

Growers reported intentions to plant 4,027,000 acres to flaxseed in 1950, compared with 5,199,000 acres in 1948 and the 10-year 1938-48 average of 3,869,000 acres, it was reported by the Department of Agriculture.

Minneapolis.—Demand for linseed oil, continued very quiet and only a small amount of new business was reported by local crushers. Old-crop linseed oil was offered 16.3c. per pound, raw, tanks, f.o.b., Minneapolis, but most of the stuff was moving at around 15.9c. Some new-crop California oil was being offered early in the week at 14.5c. per pound for June delivery, f.o.b., Los Angeles, but this price was withdrawn later. Latest price for new-crop oil produced in the California-Arizona area was 15c. per pound for June-July shipments, f.o.b., Los Angeles.

Shipments of linseed oil last week, in pounds, were as follows:

	1949-50	1948-49
This week	9,780,000	3,580,000
Since Sept. 1	251,100,000	196,618,000

Flaxseed—Trading spotty. Market unchanged and steady.

Minneapolis.—Demand for flaxseed improved slightly over recent weeks. There was no market for seed in Duluth. Receipts for the week totaled 91 cars. Only 10 cars were shipped out. The price range held steady at $3.75 to $3.99 per bushel, with only top quality selected seed from northern Minnesota and North Dakota drawing the top price. Flax originating from South Dakota and southern Minnesota moved at $3.75 to $3.85, depending upon oil content. Crushers were not very active, due to the slow demand for linseed oil.

Receipts and shipments of flaxseed last week, in bushels, were as follows:—

Bushels—	Receipts 1949-50	Receipts 1948-49	Shipments 1949-50	Shipments 1948-49
This week	154,700	224,100	17,000	96,900
Since Sept. 1	15,594,300	30,821,500	2,357,000	7,713,800

Other Vegetable Oils

Castor Dehydrated—High cost of castor beans kept this market firm. Demand for oil was light and spotty. Brazilian No. 1 was firm at 16¼c. per pound, tankcars, New York delivery.

Coconut—Trading was slow. Crude oil was unchanged at 14¾c. per pound, tankcars, f.o.b. Pacific coast March shipment; 14½c., April, and 14¼c. May.

Copra—Offers for shipment were advanced to $200 per short ton, c.i.f. Pacific coast. Inquiry was inactive.

Corn—Market was firm under light offerings. Crude oil was raised to 14c. per pound, tankcars, f.o.b. mills, with bids ¼c. less. Refined oil was quoted at 16⅞c. to 17c. per pound, tankcars, New York delivery.

Oiticica—Trading was inactive. Prices were unchanged, ranging from 20c. to 21c. per pound, tankcars, New York delivery, and drums, carlots, 1c. more, depending on seller.

Olive—Sales of edible oil of moderate volume were reported at $2.25 to $2.50 per gallon, drums, spot delivery, depending upon quantity. Both African and Spanish oils were sold on this basis. Commercial oil was inactive and quotably unchanged. Arrivals of edible oil totaled 2,449 drums at New York last week.

Peanut—Offers of crude oil were cleaned up at 14¾c. per pound, tankcars, f.o.b. mills in the Southeast for March shipment. Later sales were reported at 15⅛c. for March and April and 15c. May shipment. Demand was good and offers scarce. Refined oil was higher at 18c. per pound, tankcars, New York delivery. Farmers planned as of March 1 to plant 2,570,000 acres to peanuts in 1950, 12 percent less than 2,929,000 acres in 1949, it was reported by the Department of Agriculture. The 10-year average, 1938-48 is 3,634,000 acres.

Soybean—This market continued strong. Prices were firmer for all positions. Crude oil was sold at 13c. per pound, f.o.b. mills, March shipment. Sales also took place at 12¾c. April, 12½c. May and 12c. July-September shipment. Refined edible oil was higher at 15¾c. per pound, tankcars, New York delivery. Growers intended to plant 13,500,000 acres to soybeans as of March 1, compared with 11,409,000 acres in 1949 and 1938-49 average of 12,058,000

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Castor oil, Brazilian, ¼c. per lb.
Corn oil, ¼c. per lb.
Copra, $2.50 per ton.
Cottonseed oil, ¼c. per lb.
Peanut oil, ⅛c. per lb.
Soybean oil, ¼c. per lb.

Prices Reduced

Carnauba wax, 1c. to 2c. per lb.
Montan, imported, 1c. per lb.
Ouricury, ref., 1c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Mar. 25, 1949
119.4	118.9	117.4	111.3	129.0

(For Current Prices see Page 9)

acres, according to the Department of Agriculture. CCC reported purchases of 174,333 bushels of soybeans for export during the week ended March 17, bringing the total to 1,310,399 bushels from October 1, 1949 to March 17, 1950.

Sales and prices of prime crude soybean oil on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended March 24 follow:—

	Sales	Cents per pound High	Low	Close
April				12.90 Bid
May	24	12.55	12.15	12.58@12.65
June	3	12.45	12.10	12.45S
July	22	12.25	12.00	12.30@12.39
August				12.15N
September	10	11.88	11.55	11.85@11.88
October	15	10.72	10.55	10.85@11.00
November	1	10.47	10.47	10.55@10.75
December	8	10.25	10.08	10.28@10.35
January	1	10.15	10.15	10.10@10.25
February	..	....	....	10.10N
March	..	....	....	10.10N

Total sales, 84 tankcars.

Tung—Limited supplies of imported oil were maintained at 26½c. per pound, tankcars, March-April, New York delivery. Light sales were noted at this level. Late April-May was quoted at 26¼c. and May-June, 26c., same basis. Domestic oil was steady, with trading noted at 26c., tankcars, f.o.b. mills. Department of Agriculture last week announced that purchase agreements covering 1,748 tons of tung nuts and 11,462,509 pounds of tung oil have been made by producers and the Commodity Credit Corporation in accordance with provisions of the 1949-crop tung support program. The agreements represent a little more than half the total production of oil (estimated at approximately 21,000,000 pounds) from the 1949 crop of tung nuts.

Fats and Greases

Greases—Fair volume of business was reported in most grades at prevailing prices for soapers account, which kept the market on a steady basis. Export business was light, though inquiry was more active. Choice white was quoted at 8c. per pound, drums, f.a.s. and yellow, 7c. to 7¼c., same basis.

Lard—Market was firmer. Trading was moderate for domestic and export delivery. Cash lard was well held at 10.80c. per pound, tierces, Chicago. Export inquiry improved and prices were firm at 12c. per pound, containers, f.a.s.

Tallow—Trading was fairly active, with large users taking sizable quantities of all grades at current prices. Small quantity buyers continued to pay premiums of about ¼c. Demand for export was fair, with sales of fancy reported at 8c. and extra, 7¾c. per pound, drums, f.a.s.

Animal Oils

Degras—Fair volume of sales were reported for refined grades at current quotations. Common was unchanged and steady.

Grease Oils—Demand was light and spotty. Prices were without change and fairly steady.

Oleo Oil—Inquiry was restricted to small lots for spot delivery. Extra was unchanged at 12½c. to 13c. per pound, tierces, as to quantity.

Oleo Stearine—This market was more

Margarin Output: Jan.

Margarin production totaled 84,237,451 pounds in January, compared with 76,947,619 pounds in December and 81,456,271 pounds in January last year, according to the Bureau of Internal Revenue.

	Pounds January 1950	1949
Production of uncolored oleomargarin	58,114,537	69,680,503
Withdrawn tax-paid	58,809,845	69,749,910
Used in Uncolored Margarin		
Butter flavor	6,344	2,121
Corn oil	55,693	98,020
Cottonseed oil	32,935,746	37,641,842
Derivative of glycerin	90,014	94,710
Diacetyl	73	56
Lecithin	107,127	123,187
Milk	9,784,383	11,609,762
Monostearin	49,535	65,507
Neutral lard	349,710	433,035
Oleo oil	295,338	317,849
Oleo stearin	235,262	242,477
Oleo stock	38,155	30,200
Peanut oil	400	8,211
Salt	1,783,496	2,132,949
Soda, benzoate of	41,869	48,143
Sodium sulpho acetate		5,556
Soybean flakes	1,027	368
Soybean oil	13,190,278	17,782,467
Vitamin concentrate	9,029	46,841
Total	58,973,499	70,683,306
Total production of colored oleomargarin	26,122,914	11,775,768
Total withdrawn tax-paid	25,131,780	10,973,487
Used in Colored Margarin		
Butter flavor	5,965	703
Coconut oil		29,000
Color	14,538	16,629
Corn oil	10,700	11,558
Cottonseed oil	14,713,708	6,422,971
Derivative of glycerin	31,322	17,359
Diacetyl	17	9
Lecithin	46,636	21,167
Milk	4,430,445	2,035,753
Monostearin	22,447	7,646
Neutral lard	37,868	30,347
Oleo oil	59,360	23,973
Oleo stock	7,350	1,600
Peanut oil	45	8,456
Salt	804,311	375,000
Soda, benzoate of	17,818	7,858
Soybean flakes	623	112
Soybean oil	6,333,296	3,302,703
Vitamin concentrate	4,549	1,805
Total	26,541,496	12,315,549

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or less nominal at 9c. to 9¼c. per pound, barrels, New York. Trading was quiet.

Fish Oils

Cod—Consuming was inactive. Prices were unchanged at 7½c. to 8½c. per pound, drums, New York, as to quantity and delivery.

Fish—Crude oil was scarce and prices were nominal. Last sales of crude sardine took place at 7c. per pound, tankcars, Pacific coast. Crude menhaden was quoted at 6c. Atlantic coast, forward delivery, with buyers showing no interest. Production of crude menhaden oil totaled 215,111 gallons in January compared with 54,791 gallons in same month last year; sardine, 349,459 gallons against 127,362 gallons and tuna and mackerel, 9,615 gallon against 25,964 gallons.

Los Angeles.—Sardine oil market is about dried up until next season. Sales last week at 7c. per pound, f.o.b. Los Angeles, cleaned out the available oil in this area. Reports from Monterey list 3 or 4 cars available and San Diego reports a car or two. Sellers were asking 8c. per pound for their remaining oil. Buying interest has been lacking at this price. Light trading was reported for tuna oil at 4½c. per pound, f.o.b. Los Angeles with additional buying interest evident at this level.

Cake and Meal

Cottonseed Cake and Meal—Offerings of slab cottonseed cake and meal throughout the Mississippi Valley region continued very light. Most of the offerings were from resellers. Loose slab cake 41 percent was offered in limited quantities at $55 per ton, Valley points and $56 Memphis, March-April shipment. Meal market was advanced to $61 sacked basis Memphis, March-April shipment, with sales at $64 Georgia points and $64.50 South Carolina points, April shipment.

Loose slab cake 41 percent was quoted at $48 to $50 per ton Texas points, March-April shipment.

Linseed Meal—Active demand stiffened the market last week.

Minneapolis.—Good demand and light supplies of linseed meal, especially 34 percent expeller, pushed meal prices sharply higher last week. Expeller meal at one time was quoted as much as $6 per ton higher than the 36 percent extracted. At the week's end, expeller meal was $2.50 per ton higher on March-April shipments. The 36 percent extracted meal was $2.50 per ton higher on March shipments and $3 higher on April shipments, both f.o.b., Minneapolis.

Shipments of linseed meal, in pounds, were as follows:—

	1949-50	1948-49
This week	15,060,000	12,160,000
Since Sept. 1	515,810,000	394,440,000

Peanut Meal—Exporters bought most of available meal supplies last week. Old process meal 45 percent was nominal at $65 per ton f.o.b. Georgia and Alabama mills. Unless the Government releases additional peanuts for crushing the supply of meal will definitely be scarce for future months.

Soybean Meal—Prices were advanced during the week with 41 percent or 44 percent bulk meal quoted at $60 to $62 basis Decatur, April through September. A fair tonnage of southeastern meal was sold to exporters for shipment from southern ports, and quoted at $68 to $69 Alabama and Georgia and $71 to $72 North Carolina, March-April shipment. Demand continues fairly good.

Waxes

Beeswax — Consuming demand was moderate for refined grades. Market was steady, reflecting the strength of African and Brazilian crudes.

Carnauba—Reports of trading at primary sources on a barter basis continued to keep this market unsettled. Trading on the spot was slow and quotations more or less nominal. No. 3 crude was quoted at 76c. to 77c. per pound, and refined 82c. to 83c., as to quantity; yellow No. 1 $1.03 to $1.05 and No. 2, $1.01 to $1.03.

Montan—Liberal offerings and slow demand have weakened imported material and Bohemian and German was quoted at 15c. to 16c. per pound, spot, as to quantity and seller.

Ouricury—Demand was quiet. Refined was easier and available at 79c. to 80c. per pound, as to quantity.

Strohmeyer & Arpe Correction

In the March 20 issue of OPD it was stated that the office of chairman of the board of directors of Strohmeyer & Arpe Company, New York, had been abolished following the death of Arthur H. Hoffman. Recently retired, Mr. Hoffman is very much alive and the position he held has not been abolished but has been left vacant.

U.K. Herring Oil Output Up

Herring oil production in the United Kingdom amounted to 2,330 short tons in 1949, more than double the 1,100 tons produced in 1948, according to the Office of Foreign Agricultural Relations. Of this quantity 2,180 tons were used for edible and 150 tons for industrial purposes. Production in 1950 is not expected to exceed the 1949 level.

Medalie in New OIT Post

D. P. Medalie has been appointed acting director of the enforcement staff of the Office of International Trade, succeeding H. A. Blomquist who recently resigned. Prior to his new assignment, Mr. Medalie assisted in organizing and served as special agent in charge of OIT's New York enforcement branch office.

Roesling Sells Vegetable Oil Business to Paul Smith

R. J. Roesling & Co., San Francisco, has sold its copra and vegetable oils brokerage business to Paul X. Smith, who has managed the copra and vegetable oils department of the Roesling organization for several years. Mr. Smith will be assisted by Hugh G. Arnold in San Francisco, Paul W. Bates in New York, and C. F. Gebhart in Manila. The Roesling company will continue in business, handling a general line of imports and exports and will retain offices at 244 California street, San Francisco.

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SPECIAL ITEMS

FOR IMMEDIATE DELIVERY

ROBALL SIFTERS

10—No. 71 J. H. Day Co. "Roball" Sifters, single deck, screening surface 40" x 84", with STAINLESS STEEL SIEVE FRAMES, SCREENS, FEED AND DISCHARGE HOPPERS, etc., each with 2 H.P. Motor and steel stand. Used 3 times only.

2—#12 SWEETLAND FILTERS, 36 leaves on 4", also 72 on 2".
1—42" x 42" SHRIVER FILTER PRESS, Cast Iron, Plate and Frame, Open Delivery, 41 Chambers; also 39" x 39" Kilby, 46 plates, 47 frames.
2—900 gal. closed, jack., agit. STEEL KETTLES, 10 H.P. Motors & drives.
1—2,000 gal. STEEL KETTLE, jack., open top, agit., 7' x 7'6".
2—BAKER PERKINS MIXERS, size 17. Jacketed, 200 gallon.
1—No. 4-TH MIKRO PULVERIZER. Rebuilt—immediate shipment.
1—VACUUM SHELF DRYER, 17 shelves, 40" x 43".

RUBBER COVERED SHRIVER FILTER PRESSES

5—36" x 36" Shriver Filter Presses, each 4-eyed, closed delivery, top feed, 11' c/c of legs, 6'6½" chamber space, complete with side bars, 50-ton "Seco" closing device, semi-hard rubber plates and rubber covered C.I. frames. One press has 13'6½" chamber space 36 and 18 chamber presses.

ALUMINUM PRESSURE FILTER PRESSES

3—30" x 30" Aluminum Plate and Frame Filter Presses, two Shriver and one Sperry—48 chambers each, side feed, open delivery, used on pectin. In excellent condition and for immediate shipment.

1—300 gal. PATTERSON HIGH CHROME MANGANESE BALL MILL, 54" x 54", jacketed, with drive and motor.
1—J. H. Day ALUMINUM Horiz. 1,000# DRY POWDER MIXER.
1—8' x 12' OLIVER ACID-PROOF FILTER, lead fitted.
1—LOUISVILLE ROTARY STEAM TUBE DRYER, 6' x 50'.
1—ROTARY VACUUM DRYER, 5' x 33'.
1—#1 BANBURY MIXER, chrome plated rotors, drive, 40 HP motor.
2—175 gallon HEAVY PASTE MIXERS.
1—2,000 gal. horiz. RUBBER LINED TANK, 6'x9'.
4—Day and Ross 40 gal. PONY MIXERS, drive and motor.

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1—7' steel Evaporator with 1,150 sq. ft. copper calandria, copper tubes and condenser.

3—6'6" cast iron Evaporators with 1,000 sq. ft. copper calandrias, copper tubes and condensers.

1—75' Chain Bucket Elevator, steel housing, 8"x12" buckets.

1—Union Steam Pump Co. Homogenizer, 300 gal. per hr. at 3,000# pressure.

1—Suchar #5 Rotary Leaf "Auto" Pressure Filter, 36 leaves, 900 sq. ft. filtering area, 56.2 cu. ft. cake capacity.

1—2-roll Malt Grinding Mill.

1—Kathabar Air Conditioning Unit, 500 cu. ft. per minute.

1—Coopering Machine, 55 gal. barrels.

1—Moore 300 KW Turbo Generator Set, 150# steam pressure, 3/60/220 V.

1—Westinghouse Turbo Generator Set 150 KW, 150# steam pressure, 3/60/220 V.

2—Edgemoor 356HP Horizontal Water Tube Boilers with Huber stokers and Davidson feed water and stoker pumps.

2—Deep Well Pumps, 50HP, 40HP, 30HP motors.

4—Kinney Rotary Bronze Pumps, cap. 1,500 gals. per hr., motor driven.

3—8'x8' Vertical Steel Tanks with side entering agitators and motors.

6—5'x8' Horizontal Steel Agitated Tanks, motor driven.

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AGITATORS

4—Pneumatic Air Meter Agitators "Type B"
2—Lightnin Portable Agitators ⅛ HP—208V—XPL
4—Lightnin Portable Agitators ¼ HP—220V—XPL
12—Electric Fans—3/60/220V
1—16 Gal. Pony Mixer, Belt Driven
1—Ingersoll Rand No. 20 Air Compresser with receiver and 15 HP XPL 220V motor
1—Beach Russ Rotary Air Compressor Model 6D—Belt Driven
1—Spencer Blower 1050 CFM — with 5 HP XPL
6—Universal Electric Strainers
1—Revolvator Stacker —9½' high
Economy Barrel Tiering Machine
14—eam and Dial cales

PUMPS

3—Blackmer Rotary Pumps with 21 HP and 3 HP XPL motors
5—Blackmer Rotary Pumps—Belt Driven
2—Ingersoll Rand Pumps 1½ and 5 HP XPL motors
2—Viking Rotary Pumps with ½ HP XPL motors
11—Spare Motors up to 15 HP

BALL and PEBBLE MILLS

PAUL ABBE BUHRSTONE LINED PEBBLE MILLS CHAIN DRIVEN WITH MOTORS

	Total Gal.
2—62"x72" with 15 HP	740
1—62"x72" with 10 HP	740
7—54"x60" with 5 HP	448
1—54"x60" with 5 HP	448
3—37"x48" with 5 HP	162
1—37"x48" with 3 HP	162
1—37"x48" with 3 HP	162
1—32"x36" with 3 HP	85
1—32"x36" with 2 HP	85
1—18"x24" with ½ HP	15
1—18"x24" with 1 HP	15

Mostly with Explosion Proof Motors

SPECIAL
1—Abbe 42"x48" Steel Jacketed Ball Mill with 15 HP Explosion Proof Motor 287
ALL MOTORS ARE 3 PH 60 CYCLE

KENT Hi-Speed 5 Roll water cooled MILL with 25 H. P. motor.

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50" DIA. VARNISH KETTLES
7—300 Gal. in Copper
5—175 Gal. in Copper
2—125 Gal. in Copper
10—240 Gal. in Iron
24—Trucks for the Kettles above
22—Varnish Kettle Thermometers 150°-750°
1—Sharples No. 6 Centrifuge Belt Driven
1—Sharples No. 700 Centrifuge Belt Driven

1—Morehouse Hy-R-Speed Mill Model SB—1400 with 20 HP XPL motor 3/60/220-440
1—150 Gal. Twin Horizontal Mixing Tanks with 2-5 HP XPL motor
6—Buhrstone 30" Mills with Mixers, belt driven
3—Buhrstone 20" Mills Belt Driven
1—Putty Chaser 48"—Belt Driven
3—Kent 8" Buhrstone Lab. Mills
1—650 Gal. Jacketed Drop Cast Iron Kettle
40—Portable Mixing Tanks 3'x3' with cocks and Casters
1—200 gal. weigh Tank with scale

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ALL BELT DRIVEN EQUIPMENT
1—Atlas Compound Mandrel
1—Silbey 22" Drill Press
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1—Fairbanks No. 3 Saw
1—Prentiss Shaper
1—Electric Drill—208 V
1—Fairbanks Emery Grinder

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209—Door—Single, double, up to Sextuple units
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	DRYERS
2525-S4	Two Struthers Wells Stainless Drum Dryers, 5'x10' with accessories.
2877	Buflovak Double Drum Dryer, 32"x72" complete.
2926-L1	Pittsburg Lectro Dryer #250.
2919-J	Three Multi Pass Jacketed Dryers and Coolers with screw conveyor agitators; 10' long.
2837	Stokes Lab. Vac. Shelf Dryer; 12"x13"x18".
2834 C1	Devine Vac. Shelf Dryer; 40"x 48"x22".
2579-A3	Two Devine Vacuum Chambers No. 11; 40"x50"x69".
2530-S4	Bartlett & Snow Stainless Pan Dryer; 7'10¾"x2'11" with accessories.
2499	Stokes 3'x5' Nickel Rotating Jacketed Vac. Dryer.
	CONDENSERS
2579-A7	Two Devine Surface Condensers No. 52X; 160 sq. ft.
2571-M2	Two Devine Surface Condensers No. 12DCX; 179 sq. ft.
2982-F15	Two Tubular Condensers; 27¾" x16'8" long.
	REACTORS, PRESSURE VESSELS; DISTILLATION UNITS
2879-L8	Stainless Reactor 1200 gal.; 60" x93"; dished heads.
2879-L7	Stainless Reactor 500 gal.; 48"x 60"; dished heads.
2879-L6	Stainless Reactor 300 gal.; 36"x 60"; dished heads.
2879-L4-S	Two S.S. Reactors same as above but JACKETED; dished heads.
2834-C2	NEW Steel Jacketed Vacuum Receiver; 400 Gal. 3'x7'.
2879-L	Three Stainless Vac. Receivers; 14"x48" and 24"x72".
2957-S	Three 250 Gal. Stainless (Type 316) Pressure Vessels; 3'x4'; ASME-U69; 30#; dished heads.
2755-R18-19	Two Steel Coil Heated Vacuum Stills; 54"x96"-48"x90"; with accompanying Receivers.
2755-R17	5' Steel Bubble Cap Column with 4000 Gal. Still Pot and Condensers.
8846	Copper Distillation Column 36" Diameter; 6 sections high; with Condenser and Dephlegmator.
2893	Vulcan Copper Rectifying Column 24"x36' with accessories.
2755	Alberger Karbate Hydrochloric Acid Recovery System.
2755-R12	Four Steel Chlorinators; 1500 Gal.; 4'x16'.
2018	Kleinschmidt Vapor Compression Type Water Still in Monel; 50 Gallons per hour.
2834	Stokes Copper Water Stills 50 to 100 Gal. per hour.
	COMPRESSORS
2558-L3	Worthington 2 Stage Air Compressor 10½"x4¾"x12".
2525-S13	Three Frigidaire 5 Ton Air Conditioners; 5 H.P.; Freon.

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2945M-4	Tolhurst 40" Self Balancing Centrifugal; 7½ H.P. 2 speed Motor.
2501-N2	A.T.&M. 30" Monel Under-driven Centrifugal Extractor.
2540-L2	Sharples Centrifugal Clarifier Model Type M4P1J.
2854-E10	Sharples Centrifugal Clarifier Model Type MLP5P1.
2496	Sharples Vapor-Tite Super Centrifuge Model M61-21-18-2B with 3 H.P.
2475	De Leval Hermetic Clarifier No. 194 with 3 H.P. A.C. Motor.
	EVAPORATORS and VACUUM PANS, STILLS
1966	Zaremba Triple Effect Copper Evaporator 220 sq. ft. per effect.
2895-E3	Devine Single Effect Steel Evaporator with Barometric Condenser.
2540-C7	Mojonnier Copper Vacuum Pan 6'x16' with Calandria section.
2598-D1	Copper Coil Heated Vacuum Pan; 40"x72"; three sections.
9908-H2	Copper Steam Jacketed Vacuum Pan; 38½"x50".
9908-H3	Aluminum with Copper Jacket, Vac. Pan; 40"x60."
2662-S200	Pfaudler Glass Lined 500 Gal. Vac. Pan with 5 H.P. S.S. Agitator.
	STORAGE TANKS
275	Six Butt Welded Steel Horizontal 10,000 Gal. Pressure Tanks 8'x20'; ⅛" thick shell.
2684	Two Steel Storage Tanks; 4700 Gal. Horizontal; 70"x23'8" made of ¼" plate; with coils.

Stock No.	Description
	MILLS and GRINDERS
2997	Williams Model 1 Helix Seal Mill with 5 H.P. motor.
2383	Raymond Model "00" Pulverizer.
1401	Two Raymond No. 45 Imp Mills with separators and blowers.
1691	Five Fitzpatrick Model D Comminutating Machines with Stainless and other Non-Corrosive contact parts.
1137	Schutz-O'Neill No. 1 Dustless Sugar Pulverizer.
	PEBBLE MILLS
2910	Patterson Porox Lined 4'x5' Pebble Mill with charge of pebbles and gear reduction unit and 10 H.P. A.C. Motor.
2538	Patterson Buhrstone Lined 6'x 5' Pebble Mill; Pulley Driven.
2512-A4	J. H. Day Steel Pebble Mill; 30" x20"; motorized.
	DRY MIXERS
2986-K1	J. H. Day D 10 Double Ribbon Mixer with 7½ H.P. motor.
2836	Wolf 5000 lb. Ribbon Mixer; 50"x54"; 114"; 20 H.P. Motor.
2927-L3	Three Porter 10,000 lb. NEW Ribbon Type Mixers; 68"x 66"x16' long. FMC can supply all sizes in Ribbon Mixers.
	JACKETED MIXERS
2664-M2	Jacketed Hor. Double Ribbon Mixer or Crystallizer; 950 Gal. 28"x42"x16' long.
2110-W	Readco Jacketed Hor. Ribbon Type Mixer; 210 Gal.; 39"x 33"x68".

Stock No.	Description
2109	J. H. Day Jacketed Ribbon Type Mixer; 28"x26"x70".
2478	Baker Perkins, 100 Gal. Jacketed Double Sigma Arm Mixer; 33"x38"x30".
2337	43 Mixers; W. & P. Type Heavy Duty; 100 Gal. Jacketed double geared; double arms, sigma or nabem; tilting.
	SPECIAL MIXERS
2986-K2	J. H. Day 400 Gal. Shortening Blender; 34"x37"x90" with 10 H.P.
1951-L1	MacLellan 20 cu. ft. Tumbling Batch Mixer; arr. for M.D.
2944-04	MacLellan 80 cu. ft. Tumbling Batch Mixer with 7½ H.P.
2146 W-1	J. H. Day 40 Gal. Pony Mixer; nickel lined; nickel can.
2986-K17	Two J. H. Day 75 Gal. Beater Mixers; 32"x32" with sigma blades; motorized.
2949	Two Ross Heavy Duty Unjacketed Dough Mixers; 16"x12"x 16"; double arm, double geared; motorized.
2728B-1-2	Two Baker Perkins Stainless Steel 3 gal. Double Sigma arm Dough Mixers; tilting.
2546111	Lancaster Stainless Steel Muller type Mixer; Model EAG4 with 10 H.P. motor.
2530-S1	Readco Stainless Double Arm Mixer; 75 gal. 38"x34"x38".
	MIXING TANKS and KETTLES
2893	Three Glass Lined Jacketed and Agitated 1000 Gal. Tanks.
2944-01	100 Gal. Steel Jacketed and Agitated Vac. Resin Kettle with Vacuum Ejector.
2744	800 Gal. Steel Jacketed and Agitated Open Top Kettle; 4'x 8½'.
2741	Steel Jacketed and Agitated Closed Top Kettle 4'x14'6".
2514	Four Dopp Cast Iron Jacketed Kettles; 250 gal. 60"x30".
2186 W1-4	Four Open Top Stainless Full Jacketed Tanks; 65"x68".
	FILTERS and FILTER PRESSES
2973	Turl Type B Automatic Filter; rotary leaf pressure Filter; 900 sq. ft.
2729	Oliver Dorrco Type Rotary Vacuum Filter; 6'x3'; nickel contacts.
2374	Oliver Rotary Vacuum Filter 5'3"x6'.
2192	Oliver Rotary Vacuum Filter; 6'x44".
2535	Sweetland No. 7 Leaf Filter with 41 copper leaves.
2968	Sweetland No. 9 Leaf Filter with 45 screens.
2990	Sperry 36" Recessed Filter Press; 66 plates; Cast Iron; top corner feed.
2886-A1-6	Six 36" Cast Iron Filter Presses; 45 Chambers; open delivery.
2789	Shriver 30" Cast Iron Plate & Frame Filter Press; 28 chambers.

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3—9" x 24" motor driven roller mills.
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PONY MIXERS from 2½ gallons to 40 gallons.
2—4'6" x 5' burr stone-lined pebble mills.
1—Paterson 6' x 5' watercooled steel ball mill.
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10—8" Premier Colloid Mills

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1—Stokes 90-C Automatic Tube Filler, Closer & Crimper.
3—Colton #4 Worm Tube & Jar Fillers with Colton #2 Tube Closers & Crimpers.
3—Kiefer 12 & 16 Stem Rotary Vacuum Fillers.
2—Pneu. Scale & MEM 6-12 Stem Vac. Fillers—S.S. contact parts.
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1—Colton Air Style Tube Filler.

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3—Type 347 S.S. 3450 gallons with and without coils.
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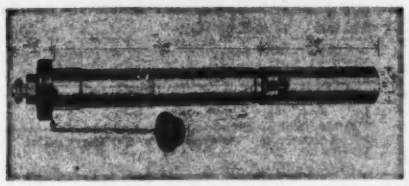

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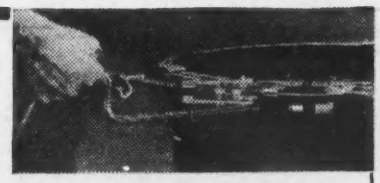

DRUM PARTS SYSTEM was designed to make it easy to insert the bolt in the lugs on the ring and to tighten the bolt after it has been inserted.

Note in the illustration that the wrench which is a self-contained part of the "SPIN-SEAL" Closing Tool is instantly ready to tighten the bolt, after it has been quickly inserted in the lugs.

DRUM PARTS SYSTEM makes it easier and quicker to do the job the right way—to tighten the bolt while the ring is held firmly in the proper position—not after the tension has been released.

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—Continued from page 55

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Newport News

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MICA—20 cs, African Rainbow, Beira

Norfolk

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POTASSIUM SULPHATE—1,350 tons, Synthetic Nitrogen Products Corp, Golden City, Bremen
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TAPIOCA—500 bgs, Stein, Hall & Co, Polydorus, Tandjong Priok

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CANARYSEED—110 bgs, Robin Trent, Istanbul
50,000 kilos, Chase National Bank, Robin Trent, Istanbul
909 bgs, H S Cramer & Co, T J Stevenson, Istanbul
333 bgs, Philadelphia Seed Co, T J Stevenson, Istanbul
CASEIN—400 bgs, International Commercial Corp, Lia, Montevideo
CASTOR OIL—218 tons, Woodward & Dickerson Inc, Mormacteal, Salvador
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CHROME ORE—9,855 tons, Mutual Chemical Corp, Atlantico, Iskerendun
7,000 tons, Mutual Chemical Corp, Yozgat, Iskerendun
CRESYLIC ACID—200 dms, American Scout, Glasgow
43 dms, Concord Chemical Co, American Scout, Belfast
FUEL OIL—36,050 bbls, Hess Inc, Longwood, Newcastle
MOLASSES—697,682 gls, ICEA, Paco, Matanzas
PEATMOSS—300 bls, Alfa Intl Corp, Havorn, Bremen
450 bls, Hellenic Bank & Trust Co, Havorn, Bremen
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2,070 bls, Bank of Manhattan, Havorn, Bremen
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119,134 bbls, Socony Vacuum Oil Co, Lake George, Mena Al Ahmadi
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26,524 tons, Socony Vacuum Oil Co, Olympic Torch, Mena Al Ahmadi
96,081 bbls, Texas Oil Co, Gallia, Pamatacual
119,069 bbls, Socony Vacuum Oil Co, Mobilube, Covenas
122,738 bbls, Gulf Oil Corp, Gulfray, Puerto La Cruz
22,602 tons, Socony Vacuum Oil Co, Hampton Roads, Caripito
107,848 bbls, Gulf Oil Corp, Gulfvictor, Caripito
202,946 bbls, Gulf Oil Corp, San Tome, Puerto La Cruz
120,058 bbls, Atlantic Refining Co, Atlantic Refiner, Puerto La Cruz
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SESAME SEED—2,891 bgs, Pacific Vegetable Oil Corp, Gunners Knot, Corinto
272 bgs, Balfour Guthrie Co, Gunners Knot, Corinto
520 bgs, H M Newhall & Co, Gunners Knot, Corinto
TANKAGE—980 bgs, Tupman Thurlow Co, Waitemata, Auckland
TIN, REFINED—892 slabs, Metal Traders Inc, President Grant, Singapore
200 ingots, Irving Trust Co, President Cleveland, Hong Kong
VANILLA BEANS—29 cs, William Diamond & Co, Waitemata, Auckland
13 cs, Paul Rieger & Co, Waitemata, Auckland
75 cs, American & Far Eastern Trading Co, Waitemata, Auckland
WHITING—1 bg, Balfour, Guthrie & Co, Cape Hawke, Liverpool
WOOL GREASE—156 dms, N I Malmstrom & Co, Pacific Exporter, Manchester

Savannah

TAPIOCA—994 bgs, Stein Hall & Co, Polydorus, Tandjong Priok

Bids Wanted

Accelerator, for polysulfide synthetic rubber, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 50,186, April 17.

Acetylene gas, 1,125,000 cubic feet, Army Engineers Corps (Chicago 6) invitation 184-919, April 19.

Agar, Kobe, shredded, 200 pounds, Department of Agriculture (Washington 25) invitation 397, March 30.

Aluminium nitrate, 29,500 pounds, Army Engineers Corps (San Francisco) invitation ENG-167, April 5.

Ammonium phosphate, 29,500 pounds, Army Engineers Corps (San Francisco) invitation ENG-167, April 5.

Benzalkonium chloride solution, 14,112 four-ounce bottles, Armed Service Medical Procurement Agency (Brooklyn 1, N.Y.) invitation 469, April 4.

Black, mixed, 475,000 pounds, samples on or before April 14, Bureau of Engraving & Printing (Washington 25) invitation schedule 1, June 1.

Caustic soda, 9,000 pounds, Purchasing Officer, Panama Canal (Washington 25) schedule 9548, March 29; 26,000 pounds, Army Signal Corps (Philadelphia 45) invitation 1736, April 20.

Chemicals, including vinyl ether, calcium carbonate, ferric ammonium sulphate, lactic acid, lead acetate, sodium bicarbonate, zinc oxide paste, Veterans Administration (Washington 25) invitation A-94, April 3.

Chrome green, 375,000 pounds, samples on or before April 14, Bureau of Engraving & Printing (Washington 25) invitation schedule 2, June 1.

Citric acid, 2,460 pounds, Veterans Administration (Washington 25) invitation A-94, April 3.

Cleaner, alkaline, 28,000 pounds, Army Ordnance Department (Frankford Arsenal, Philadelphia 37) invitation 168, April 14.

Diisopropylfluorophosphate, labeled with radioactive phosphorus (P32), two grams, Army Chemical Center, Md., invitation 398, April 10.

Drugs, in dosage form, including sulfadiazine sodium, thiamine hydrochloride, Armed Services Medical Procurement Agency (Brooklyn 1, N.Y.) invitation 470, April 4; thiamine hydrochloride, thyroid, ortho-tolidine, dried yeast, invitation 468, April 4; dextrose, invitation 506, April 3; pyridoxine hydrochloride, thromboplastin, invitation 484, April 5; ethinyl estradiol, invitation 496, April 10.

Dynamite, 25 metric tons, Federal Supply Service (Washington 25) invitation ECA-89-P4-6212-4, March 30.

Ferric ammonium oxalate, 8,000 pounds, Navy Purchasing Office (New York 3) invitation 6297, April 4.

Hydrochloric acid, 52,500 pounds, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 301, April 18, 1,488 one pound bottles, Veterans Administration (Washington 25) invitation A-94, April 3.

Insecticide, 320 pounds, Federal Prison Camp, Mill Point, W. Va., invitation 26-607, March 31; 200 gallons, Federal Correctional Institution, La Tuna, Texas, invitation 13,4064, April 6.

Lacquer, enamel, 3,200 gallons, Army Chemical Corps (Army Chemical Center, Md.) invitation 385, April 5; 1,300 gallons, invitation 391, April 6.

Laundry supplies, including detergent, 2,400 pounds, calcium hypochlorite, 450 pounds, perchlorethylene, 2,100 pounds, laundry sour, 100 pounds, U. S. Penitentiary (Terre Haute, Ind.) invitation 31-3162, March 29.

Lindane, 200 gallons, Army Engineers Corps (Mobile, Ala.) invitation ENG-44, March 30.

Lubricants, 80,000 pounds and 268 gallons, Armed Services Petroleum Purchasing Agency (Washington 25) invitation 81, April 14; grease, various, Navy Purchasing Office (New York 3) invitation 6238, April 4.

Naphtha, petroleum, 7,040 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 50,182, April 13.

Paint, enamel, 233 gallons, Army Engineers Corps (Mobile, Ala.) invitation ENG-47, April 4; 8,700 gallons, invitation 48, April 4; 10,000 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N.J.) invitation 292, April 17; 15,000 gallons, invitation 293, April 17; 10,000 gallons, invitation 294, April 17; 730 gallons, Army Signal Corps (Philadelphia 45) invitation 1749-R, April 19; 214 gallons, Federal Supply Service (Kansas City, Mo.) invitation KC- 9441, March 31; various, 1,200 gallons, U. S. Air Force (Maxwell Base, Ala.) invitation 28, March 29; 220 gallons, Army Engineers Corps (Mobile, Ala.) invitation ENG-47, April 4; 2,300 gallons, invitation 48, April 4; 5,600 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 50,175, April 11; 500 gallons, Federal Supply Service (Washington 25) invitation 5H-86955-R, March 30; 300 gallons, invitation 5H-86954-R, April 3; 1,057 gallons, Federal Supply Service (Kansas City, Mo.) invitation KC-9441, March 31; 120 gallons, Federal Supply Service (New York 3) invitation NY-W-21785, April 3.

Paint remover, 176,300 gallons, U. S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 038,1179, March 31.

Photographic chemicals, developer & fixer, photocopying, Department of Justice (Washington 25) invitation 6430, March 30; chromium potassium sulphate, 1,440 pounds, Veterans Administration (Washington 25) invitation A-94, April 3.

Polysulfide synthetic rubber, 5,000 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 50,185, April 17.

Shortening, canned, 560,000 pounds, Quartermaster Purchasing Office (Chicago 9) invitation 693, April 18.

Soap, grit, 60,000 ten ounce cakes, Quartermaster Purchasing Office (New York 3) invitation 604, April 18; 3,750 pounds, Federal Supply Service (Washington 25) invitation 87254(3), April 10.

Wax, floor, water emulsion, 1,320 gallons, Federal Supply Service (Kansas City, Mo.) invitation KC-9440, March 31.

White lead, in oil, 25,000 pounds, Federal Supply Service (Chicago 6) invitation 20654, March 30.